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U.S. SCHOOLS OF PUBLIC HEALTH

DATA REPORT ON APPLICANTS, STUDENTS, GRADUATES AND EXPENDITURES 1988-89

WITH TRENDS ANALYSIS FOR 1974-75 THROUGH 1988-89

JOLIE C. SPRING

and

MARTHA LEVIN

Managers of Research and Information
Association of Schools of Public Health

Association of Schools of Public Health
1015 15th Street, N.W., Suite 404
Washington, D.C. 20005

Project Consultant:
JUDITH H. MAGEE, Ph.D.
President
Magee Associates, Inc.

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PREFACE

Schools of public health have been educating professionals in the techniques of health preservation and disease prevention and control since the first decades of the twentieth century. Some schools of public health had their beginnings in university schools of medicine; others were conceived from the outset as autonomous units within their parent institutions. Today there are twenty-four accredited schools of public health in the United States, at eight private and sixteen public universities.

Unlike other health professional schools which emphasize a specific clinical discipline (for example medicine, nursing or dentistry), schools of public health educate a wide range of professionals, from biostatisticians and epidemiologists to health administrators, community health educators, and specialists in areas such as environmental and occupational health, mental health, population studies, international health and the behavioral and social sciences.

The schools have a combined enrollment of about 11,000 students and a faculty in excess of 2,000. Graduate education in each of the twenty-four schools is organized around nine major specialties:

- Biostatistics
- Epidemiology
- Health Services Administration
- Public Health Practice and Program Management
- Health Education/Behavioral Science
- Environmental Sciences
- Occupational Safety and Health
- Nutrition
- Biomedical and Laboratory Sciences

Graduates of the schools of public health work primarily in the fields of health promotion and disease prevention. They represent the basic resource pool from which federal, state and local health and environmental agencies draw their manpower needs. Graduates also work and teach in university settings. Industry relies heavily on the schools to train employees involved in industrial hygiene, occupational safety and health, environmental toxicology, and other areas.

The Association of Schools of Public Health (ASPH) operates a Data Center that collects and compiles aggregate data on applicants, students, graduates, faculty and expenditures in each school of public health. The data collected serves the schools and various federal, state and local agencies and private institutions in planning and implementing their respective public health training, research and service activities.

NOTES ON DATA

1. Data collection -- ASPH has collected data on students, graduates, applicants, and expenditures since the 1974-75 academic year. From 1974-75 through 1980-81, data on students was collected from individual questionnaires, while the remainder of the data was collected in aggregate form from the schools. Since the 1981-82 academic year, all data has been collected in aggregate form. Data forms covering the previous academic year are distributed to the schools in October of each year. In addition, there is a limited amount of data from the 1960s that was collected by Dr. James Troupin for the American Public Health Association (APHA). The Troupin data is used in the trends analysis where applicable.

2. Time period -- Data on students and applicants is for the fall semester. Data on graduates covers the entire academic year, and data on expenditures covers the entire fiscal year.

3. Degrees -- The following degree categories are used:

   MPH - Master of Public Health
   MS - Master of Science
   MSPH - Master of Science in Public Health
   MHA/MHSA - Master's degrees in health services administration including Master of Health Administration (MHA), Master of Health Services Administration (MHSA), and Master of Hospital Administration (MHA).
   OTHER.MAST - All other master's degrees including Master of Arts (MA), Master of Occupational Health (MOH), Master of Health Science (MHS), Master of Science in Environmental Engineering (MSEE), Master of Science Hygiene (MSHyg), Master of Public Health Education (MPHE), Master of Arts in Teaching (MAT).
   DrPH - Doctor of Public Health
   ScD - Doctor of Science
   PhD - Doctor of Philosophy
   OTHER.DOC - All other doctorates including Doctor of Health Science (DHSc), Doctor of Education (EdD) and Doctor of the Environment (DEnv).
   JOINT.DEG - All joint degrees, which combine a school of public health degree with an outside degree, such as the following:

      MD - Doctor of Medicine
      DDS/DMD - Doctor of Dental Surgery/Dental Medicine
      DVM - Doctor of Veterinary Medicine
      OD - Doctor of Optometry
      JD - Doctor of Laws
      PhD - Doctor of Philosophy

MA - Master of Arts
MS - Master of Science
MN/MSN - Master of Nursing
MBA - Master of Business Administration
MCRP - Master of City & Regional Planning
MIA - Master of International Affairs
MPA - Master of Public Administration
MPP - Master of Public Policy
MPPM - Master of Public and Private Management
MSUP - Master of Science in Urban Planning
MSW - Master of Social Work

NONDEGREE - All students not enrolled in a formal degree program. Includes special students, postdoctoral fellows and persons enrolled in certificate or credential programs.

UNKNOWN - Degree program is unknown.

BACHELOR - Data on undergraduates was collected from 1974-75 through 1980-81. Undergraduates are included in data for those years.

4. Areas of Specialization -- The following categories are used:

BIOSTAT - Biostatistics, biometry.

EPID - Epidemiology. Where epidemiology and biostatistics programs are combined, data is recorded under epidemiology.

HSA - Health services administration, hospital administration, health policy, health planning, health management, health services organization, health law, evaluation research.

PHP&PM - Public health practice and program management, maternal and child health, gerontology, dental public health, optometric public health, public health nursing, public health social work, veterinary public health, mental health, community health sciences, community health practice.

H.EDUC/BS - Health education, public health education, health education administration, behavioral sciences, socio-medical sciences, health promotion, health behavior.

ENV.SC - Environmental science, environmental health, toxicology, radiological health, environmental chemistry, water quality, environmental health planning. Where environmental health and occupational safety and health programs are combined, data is recorded under environmental health.

OS&H - Occupational safety and health, industrial hygiene, occupational medicine, aerospace medicine.

NUTR - Nutrition, public health nutrition.

BIOMED - Biomedical and laboratory sciences, microbiology, parasitology, immunology, cancer biology, biochemistry, biophysics, pathobiology.

OTHER - All other areas of specialization including international health, population/family planning, tropical public health, urban health, disease control, genetics, clinical research analysis, forensic science. Until 1982 behavioral sciences was classified under OTHER.

NONSPEC - Nonspecialized, general public health studies.

NONDEGREE - All nondegree students and applicants are classified together regardless of area of study.

UNKNOWN - Area of specialization is undecided or unknown.

The classification system for areas of specialization was developed by ASPH in 1978 and has been used since the 1979-80 academic year. Under the ASPH data collection system, the schools report their students (applicants, graduates, etc.) by department or program area and ASPH staff regroup the data into the thirteen categories described above. Categorization is not always precise and there is some variance each year. In addition, a number of schools have departments or program areas that include two or more of the ASPH categories, such as Population and Family Health. Finally, departments within the schools are reorganized from time to time with the result that two or more areas that were once separate in the ASPH data system are later reported as a combined area. For these reasons, the data on area of specialization should be viewed with caution.

A number of schools allow dual specializations. Applicants, students and graduates with dual specializations are recorded as ".5" in each area.

5. Status -- The following categories are used for students:

F-T - An on-campus student registered for nine or more credit hours per quarter or semester.

P-T - An on-campus student registered for less than nine credit hours per quarter or semester.

OTHER - A student enrolled in a non-traditional program. This includes extended degree and other non-traditional programs offered by a school of public health at the main campus or at other sites.

UNKNOWN - Status is unknown.

I. APPLICANTS

A. Fall 1988 Applicants

Any discussion of data on applicants must be preceded by the warning that ASPH collects data on applications rather than individuals. ASPH does not have a centralized application process, and there is currently no means of determining the average number of applications submitted per applicant. Nor is there a means of determining whether there have been differences in this average over time or among population groups. Therefore, applicant data should be viewed with caution.

There were 10,895 applications reported for Fall 1988, a 2% decrease over the previous year. About 59% of the applicants were female, over 25% were foreign, and 25% of the U.S. applicants were members of minority groups. The applicants were concentrated in the areas of health services administration (26%), epidemiology (16%), "other" areas (11%), environmental sciences (11%) and health education/behavioral sciences (10%).

Of the total applications, 64% were accepted, a slightly higher proportion than that for Fall 1987 applicants (62%). Acceptance rates were similar for males and females, lower for foreign applicants (55%) than for U.S. applicants (68%), and lower for members of minority groups (51-61%) than for whites (71%).

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF APPLICANTS
FALL 1988

SEX & CITIZENSHIP

MALES	4443	41.2 %	U.S.	8097	74.6 %
FEMALES	6340	58.8	FOREIGN	2756	25.4
UNKNOWN	112	---	UNKNOWN	42	---
TOTAL	10895	100.0 %	TOTAL	10895	100.0 %

U.S. MALES	2815	35.1 %	FOR. MALES	1612	58.8 %
U.S. FEMALES	5200	64.9	FOR. FEMALES	1128	41.2
UNKNOWN	82	---	UNKNOWN	16	---
TOTAL	8097	100.0 %	TOTAL	2756	100.0 %

RACE/ETHNICITY

(U.S. CITIZEN)	MALE	FEMALES	UNKNOWN	TOTAL	
ASIAN	242	313	2	557	7.1 %
BLACK	246	463	3	712	9.1
HISPANIC					
PUERTO RICO	104	244	0	348	4.4
MAINLAND	107	173	2	282	3.6
AMERIND	26	62	0	88	1.1
(TOTAL MIN.)	(725)	(1255)	(7)	(1987)	(25.3)
WHITE	2003	3785	74	5862	74.7
UNKNOWN	87	160	1	248	---
TOTAL	2815	5200	82	8097	100.0 %

AREA OF SPECIALIZATION

BIOSTAT	521.5	5.0 %
EPID	1692.0	16.3
HSA	2673.0	25.8
PHP&PM	877.0	8.5
H.EDUC/BS	1006.5	9.7
ENV.SC	1128.5	10.9
OS&H	166.5	1.6
NUTR	293.0	2.8
BIOMED	287.0	2.8
OTHER	1186.0	11.4
NONSPEC	536.0	5.2
NONDEGREE	452.0	---
UNKNOWN	76.0	---
TOTAL	10895.0	100.0 %

TABLE 1-1
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS BY SCHOOL, SEX & CITIZENSHIP
FALL 1988

SCHOOL	MALE	FEMALE	UNKNOWN	TOTAL
ALA	133.0	127.0	.0	260.0
BOSTON	74.0	243.0	.0	317.0
CAL-BERK	222.0	497.0	.0	719.0
CAL-UCLA	269.0	430.0	.0	699.0
COLUMBIA	187.0	375.0	.0	562.0
HARVARD	406.0	401.0	.0	807.0
HAWAII	65.0	130.0	.0	195.0
ILL	76.0	115.0	.0	191.0
JHU	581.0	668.0	3.0	1252.0
L.LINDA	74.0	115.0	.0	189.0
MASS	75.0	136.0	.0	211.0
MICH	443.0	578.0	.0	1021.0
MINN	162.0	211.0	25.0	398.0
NO.CAR	381.0	574.0	.0	955.0
OKLA	82.0	108.0	.0	190.0
PITT	201.0	306.0	.0	507.0
PR	114.0	253.0	.0	367.0
S.DIEGO	73.0	121.0	2.0	196.0
SO.CAR	129.0	145.0	.0	274.0
SO.FLA	34.0	60.0	.0	94.0
TEXAS	179.0	209.0	.0	388.0
TULANE	192.0	192.0	.0	384.0
WASH	147.0	173.0	82.0	402.0
YALE	144.0	173.0	.0	317.0
Total	4443.0	6340.0	112.0	10895.0

SCHOOL	U.S.	FOREIGN	UNKNOWN	TOTAL
ALA	192.0	68.0	.0	260.0
BOSTON	280.0	37.0	.0	317.0
CAL-BERK	603.0	116.0	.0	719.0
CAL-UCLA	459.0	240.0	.0	699.0
COLUMBIA	411.0	151.0	.0	562.0
HARVARD	515.0	292.0	.0	807.0
HAWAII	142.0	53.0	.0	195.0
ILL	191.0	.0	.0	191.0
JHU	786.0	465.0	1.0	1252.0
L.LINDA	114.0	75.0	.0	189.0
MASS	154.0	57.0	.0	211.0
MICH	719.0	302.0	.0	1021.0
MINN	283.0	84.0	31.0	398.0
NO.CAR	703.0	252.0	.0	955.0
OKLA	170.0	20.0	.0	190.0
PITT	411.0	96.0	.0	507.0
PR	348.0	19.0	.0	367.0
S.DIEGO	154.0	32.0	10.0	196.0
SO.CAR	226.0	48.0	.0	274.0
SO.FLA	85.0	9.0	.0	94.0
TEXAS	312.0	76.0	.0	388.0
TULANE	251.0	133.0	.0	384.0
WASH	339.0	63.0	.0	402.0
YALE	249.0	68.0	.0	317.0
Total	8097.0	2756.0	42.0	10895.0

TABLE 1-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. APPLICANTS BY SCHOOL & RACE/ETHNICITY
FALL 1988

SCHOOL	ASIAN	BLACK	HISPANIC	AMERIND	TOTAL MINORITY
ALA	2.0	35.0	4.0	.0	41.0
BOSTON	11.0	5.0	7.0	.0	23.0
CAL-BERK	59.0	63.0	22.0	20.0	164.0
CAL-UCLA	51.0	55.0	43.0	8.0	157.0
COLUMBIA	18.0	8.0	2.0	.0	28.0
HARVARD	45.0	39.0	17.0	2.0	103.0
HAWAII	38.0	4.0	3.0	13.0	58.0
ILL	48.0	29.0	9.0	.0	86.0
JHU	73.0	87.0	20.0	5.0	185.0
L.LINDA	9.0	14.0	3.0	1.0	27.0
MASS	3.0	6.0	6.0	.0	15.0
MICH	31.0	83.0	14.0	5.0	133.0
MINN	11.0	10.0	9.0	2.0	32.0
NO.CAR	25.0	62.0	14.0	3.0	104.0
OKLA	5.0	13.0	2.0	20.0	40.0
PITT	20.0	32.0	6.0	.0	58.0
PR	.0	.0	348.0	.0	348.0
S.DIEGO	16.0	16.0	14.0	2.0	48.0
SO.CAR	2.0	51.0	4.0	.0	57.0
SO.FLA	3.0	8.0	9.0	.0	20.0
TEXAS	32.0	28.0	42.0	.0	102.0
TULANE	24.0	39.0	11.0	2.0	76.0
WASH	15.0	5.0	9.0	5.0	34.0
YALE	16.0	20.0	12.0	.0	48.0
Total	557.0	712.0	630.0	88.0	1987.0

SCHOOL	WHITE	UNKNOWN	TOTAL
ALA	151.0	.0	192.0
BOSTON	193.0	64.0	280.0
CAL-BERK	428.0	11.0	603.0
CAL-UCLA	273.0	29.0	459.0
COLUMBIA	383.0	.0	411.0
HARVARD	352.0	60.0	515.0
HAWAII	78.0	6.0	142.0
ILL	105.0	.0	191.0
JHU	596.0	5.0	786.0
L.LINDA	87.0	.0	114.0
MASS	117.0	22.0	154.0
MICH	555.0	31.0	719.0
MINN	250.0	1.0	283.0
NO.CAR	599.0	.0	703.0
OKLA	130.0	.0	170.0
PITT	353.0	.0	411.0
PR	.0	.0	348.0
S.DIEGO	88.0	18.0	154.0
SO.CAR	169.0	.0	226.0
SO.FLA	65.0	.0	85.0
TEXAS	209.0	1.0	312.0
TULANE	175.0	.0	251.0
WASH	305.0	.0	339.0
YALE	201.0	.0	249.0
Total	5862.0	248.0	8097.0

TABLE 1-3
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS BY AREA, SEX & CITIZENSHIP

AREA	MALE	FEMALE	UNKNOWN	TOTAL
BIOSTAT	248.5	272.0	1.0	521.5
EPID	809.5	874.5	8.0	1692.0
HSA	995.5	1592.5	85.0	2673.0
PHP&PM	248.5	614.5	14.0	877.0
H.EDUC/BS	208.5	798.0	.0	1006.5
ENV.SC	672.5	456.0	.0	1128.5
OS&H	111.0	55.5	.0	166.5
NUTR	48.5	242.5	2.0	293.0
BIOMED	155.0	131.0	1.0	287.0
OTHER	464.5	721.5	.0	1186.0
NONSPEC	259.0	277.0	.0	536.0
NONDEGREE	179.0	273.0	.0	452.0
UNKNOWN	43.0	32.0	1.0	76.0
Total	4443.0	6340.0	112.0	10895.0

AREA	U.S.	FOREIGN	UNKNOWN	TOTAL
BIOSTAT	279.0	237.5	5.0	521.5
EPID	1127.5	564.5	.0	1692.0
HSA	2221.0	441.0	11.0	2673.0
PHP&PM	652.0	215.0	10.0	877.0
H.EDUC/BS	868.0	138.5	.0	1006.5
ENV.SC	873.0	250.5	5.0	1128.5
OS&H	136.5	30.0	.0	166.5
NUTR	205.5	85.5	2.0	293.0
BIOMED	171.0	116.0	.0	287.0
OTHER	751.5	434.5	.0	1186.0
NONSPEC	418.0	118.0	.0	536.0
NONDEGREE	339.0	113.0	.0	452.0
UNKNOWN	55.0	12.0	9.0	76.0
Total	8097.0	2756.0	42.0	10895.0

AREA	U.S. MALES	U.S. FEMALES	FOR. MALES	FOR. FEMALES
BIOSTAT	116.0	163.0	131.5	106.0
EPID	453.5	673.0	356.0	201.5
HSA	724.5	1415.5	267.0	171.0
PHP&PM	138.5	513.5	110.0	101.0
H.EDUC/BS	152.5	715.5	56.0	82.5
ENV.SC	492.0	381.0	176.5	74.0
OS&H	87.0	49.5	24.0	6.0
NUTR	25.5	180.0	23.0	62.5
BIOMED	84.0	87.0	71.0	44.0
OTHER	202.5	549.0	262.0	172.5
NONSPEC	184.0	234.0	75.0	43.0
NONDEGREE	125.0	214.0	54.0	59.0
UNKNOWN	30.0	25.0	6.0	5.0
Total	2815.0	5200.0	1612.0	1128.0

TABLE 1-4
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. APPLICANTS BY AREA & RACE/ETHNICITY
FALL 1988

			HISPANIC	
AREA	ASIAN	BLACK	PUERTO RICO	MAINLAND
BIOSTAT	33.0	11.0	12.0	7.0
EPID	117.0	85.5	57.0	35.0
HSA	123.5	267.0	46.0	71.0
PHP&PM	49.5	76.0	11.0	36.0
H.EDUC/BS	32.5	83.5	33.0	42.0
ENV.SC	69.5	45.0	45.0	17.0
OS&H	9.0	4.0	0.0	4.0
NUTR	16.0	15.5	20.0	4.0
BIOMED	17.0	14.0	0.0	2.0
OTHER	58.0	45.5	5.0	33.0
NONSPEC	22.0	33.0	31.0	27.0
NONDEGREE	9.0	24.0	88.0	2.0
UNKNOWN	1.0	8.0	0.0	2.0
TOTAL	557.0	712.0	348.0	282.0

AREA	AMERIND	WHITE	UNKNOWN	TOTAL
BIOSTAT	0.0	210.0	6.0	279.0
EPID	8.0	794.0	31.0	1127.5
HSA	42.0	1635.5	36.0	2221.0
PHP&PM	4.0	465.5	10.0	652.0
H.EDUC/BS	16.0	632.0	29.0	868.0
ENV.SC	6.0	675.5	15.0	873.0
OS&H	0.0	117.5	2.0	136.5
NUTR	4.0	137.0	9.0	205.5
BIOMED	3.0	131.0	4.0	171.0
OTHER	2.0	587.0	21.0	751.5
NONSPEC	1.0	291.0	13.0	418.0
NONDEGREE	2.0	144.0	70.0	339.0
UNKNOWN	0.0	42.0	2.0	55.0
TOTAL	88.0	5862.0	248.0	8097.0

TABLE 1-5
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS BY SCHOOL AND AREA
FALL 1988

SCHOOL	BIOSTAT	EPID	HSA	PHP&PM	H.EDUC/BS	ENV.SC	OS&H	NUTR	BIOMED	OTHER	NONSPEC	NONDEGREE	UNKNOWN	TOTAL
ALA		52.0	17.0	19.0	19.0	21.0	20.0	3.0		40.0	19.0	50.0		260
BOSTON		45.0	130.0		50.0	23.0						64.0	5.0	317
CAL-BERK	30.0	130.0	145.0	80.0	135.0	56.0		31.0	33.0	59.0	20.0			719
CAL-UCLA	59.0	117.0	146.0		110.0	66.0		51.0		141.0		6.0	3.0	699
COLUMBIA	17.0	56.0	119.0	11.0	29.0	44.0				103.0	183.0			562
HARVARD	54.5	93.5	190.0	52.0	35.5	34.0	34.5	21.0	51.0	65.0	147.0	29.0		807
HAWAII	10.0	23.0	40.0	27.0	22.0	23.0		6.0		37.0		7.0		195
ILL		35.0	51.0	70.0		35.0								191
JHU	39.0	206.0	272.0	94.0		114.0			114.0	298.0		115.0		1252
L.LINDA	6.0	17.5	33.0	16.0	62.0	6.5		22.0		26.0				189
MASS	10.0	59.0	56.0		52.0	28.0		6.0						211
MICH	61.0	119.0	345.0	36.0	99.0	94.0	30.0	30.0		113.0		47.0	47.0	1021
MINN	37.0	88.0	116.0	54.0	32.0	51.0		20.0						398
No.CAR	88.0	150.0	203.0	114.0	125.0	176.0		68.0	31.0					955
OKLA	5.0	20.0	102.0		18.0	45.0								190
PITT	35.0	76.0	101.0	74.0		81.0			38.0	75.0		27.0		507
PR	12.0	66.0	46.0	14.0	33.0	45.0		20.0		5.0	38.0	88.0		367
S.DIEGO		27.0	46.0	35.0	57.0	12.0	9.0						10.0	196
So.CAR	13.0	42.0	71.0		84.0	44.0					20.0			274
So.FLA		12.0	23.0	6.0	20.0	11.0	10.0		1.0				11.0	94
TEXAS	11.0	32.0	52.0	56.0	12.0	32.0	39.0			101.0	44.0	9.0		388
TULANE	3.0	44.0	86.0	20.0	12.0	22.0		15.0	7.0	123.0	43.0	9.0		384
WASH	20.0	83.0	124.0	99.0		40.0	24.0		12.0					402
YALE	11.0	99.0	159.0			25.0					22.0	1.0		317
TOTAL	521.5	1692.0	2673.0	877.0	1006.5	1128.5	166.5	293.0	287.0	1186.0	536.0	452.0	76.0	10895.0

TABLE 1-6
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS/ACCEPTANCES/ENROLLMENTS BY SCHOOL
FALL 1988

	APPLICATIONS			NEW ENROLLMENTS		
	No. Made	No. Accepted	% Accepted	No.	As % of Acceptances	As % of Applications
ALA	260	216	83.1 %	152	70.4 %	58.5 %
BOSTON	317	303	95.6	165	54.5	52.1
CAL-BERK	719	305	42.4	228	74.8	31.7
CAL-UCLA	699	455	65.1	226	49.7	32.3
COLUMBIA	562	361	64.2	209	57.9	37.2
HARVARD	807	536	66.4	315	58.8	39.0
HAWAII	195	159	81.5	93	58.5	47.7
ILL	191	104	54.5	72	69.2	37.7
JHU	1252	737	58.9	380	51.6	30.4
L.LINDA	189	126	66.7	86	68.3	45.5
MASS	211	135	64.0	46	34.1	21.8
MICH	1021	642	62.9	345	53.7	33.8
MINN	398	226	56.8	164	72.6	41.2
No.CAR	955	567	59.4	278	49.0	29.1
OKLA	190	169	88.9	110	65.1	57.9
PITT	507	247	48.7	160	64.8	31.6
PR	367	231	62.9	164	71.0	44.7
S.DIEGO	196	143	73.0	69	48.3	35.2
So.CAR	274	197	71.9	117	59.4	42.7
So.FLA	94	67	71.3	55	82.1	58.5
TEXAS	388	273	70.4	167	61.2	43.0
TULANE	384	329	85.7	191	58.1	49.7
WASH	402	229	57.0	162	70.7	40.3
YALE	317	251	79.2	124	49.4	39.1
TOTAL	10895	7008	64.3 %	4078	58.2 %	37.4 %

TABLE 1-7
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS/ACCEPTANCES/ENROLLMENTS BY SEX, CITIZENSHIP, RACE/ETHNICITY & AREA
FALL 1988

	No. of Schools	APPLICATIONS			NEW ENROLLMENTS		
		No. Made	No. Accepted	% Accepted	No.	As % of Acceptances	As % of Applications
MALES	24	4443	2835	63.8 %	1620	57.1 %	36.5 %
FEMALES		6340	4144	65.4	2435	58.8	38.4
U.S. CITIZENS	24	8097	5477	67.6	3332	60.8	41.2
FOREIGN		2756	1514	54.9	732	48.3	26.6
RACE/ETHNICITY (U.S. CITIZENS)	24						
ASIAN		557	337	60.5	197	58.5	35.4
BLACK		712	362	50.8	250	69.1	35.1
HISPANIC		630	376	59.7	258	68.6	41.0
(excluding PR)	(23)	(282)	(159)	(53.1)	(102)	(64.2)	(36.2)
AMERIND		88	60	68.2	35	58.3	39.8
TOTAL MINORITY		1987	1135	57.1	740	65.2	37.2
WHITE		5862	4148	70.8	2482	59.8	42.3
AREA	24						
BIOSTAT		521.5	334.5	64.1	158.5	47.4	30.4
EPID		1692.0	1063.0	62.8	566.5	53.3	33.5
HSA		2673.0	1646.0	61.6	978.0	59.4	36.6
PHP&PM		877.0	507.5	57.9	320.0	63.1	36.5
H.EDUC/BS		1006.5	655.0	65.1	375.5	57.3	37.3
ENV.SC		1128.5	756.5	67.0	412.5	54.5	36.6
OS&H		166.5	118.0	70.9	81.5	69.1	48.9
NUTR		293.0	179.5	61.3	108.0	60.2	36.9
BIOMED		287.0	131.0	45.6	67.0	51.1	23.3
OTHER		1186.0	780.0	65.8	372.5	47.8	31.4
NONSPEC		536.0	436.0	81.3	296.0	67.9	55.2
NONDEGREE		452.0	373.0	82.5	324.0	86.9	71.7
UNKNOWN		76.0	28.0	36.8	18.0	64.3	23.7
TOTAL		10895.0	7008.0	64.3	4078.0	58.2	37.4

B. Applicant Trends 1974-75 through 1988-89

In 1959, the earliest year for which data is available, there were 1,280 applications reported by 10 of the 13 schools of public health (including two Canadian schools). By 1974, when the ASPH Data Center was established, there were almost 10,000 applications reported for 19 [U.S.] schools. Total reported applications reached a high of 13,000 in Fall of 1978 and then began to decline rather rapidly. From 1978 to 1983 total applications declined by over 23%, and the total number of applications reported by 23 schools in Fall 1983 (9,998) was at the same level as that reported for 19 schools (9,916) ten years earlier.

Since 1982, the total number of applications reported by the schools has remained fairly level, at about 11,000 applications each year. Preliminary data for Fall 1989 indicates a total of 12,034 applications to the 24 schools of public health. The recent increase in the total number of applications has been caused primarily by the growth in the number of applications received from foreign applicants. The proportion of foreign applicants increased from 20.7% in Fall 1985 to over 25% in Fall 1988. The proportion of foreign applicants has increased steadily since 1974, when foreign applicants constituted less than 12% of the total.

The proportion of female applicants continues to be high; 59% of the applications received in Fall 1988 were from female applicants. Among U.S. applicants the proportion of females is even higher; about 65% of the U.S. applicants in Fall 1988 were female.

In Fall 1988, there were a total of 1,987 applications received from members of minority groups, and minority applicants constituted 25% of the total U.S. applicants. While the number of Asian applicants has been steadily increasing since 1980 (when data on race/ethnicity was first collected by ASPH), the number of Black, mainland Hispanic, and Native American applicants declined until Fall 1986. In the last three years, however, the number of applicants in the latter three groups has increased.

As indicated in the "Notes on Data" section (page iv), it is difficult to make any conclusive statements about changes in area of specialization due to classification problems. It does appear that there has been a decline in the proportion of applicants in health services administration and nutrition over the years and an increase in the proportion of applicants in epidemiology, health education/behavioral science and nonspecialized areas. For the most part, however, the data of area of specialization reveals the areas have remained quite stable over the past 15 years.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF APPLICANTS
(Fall Semester)

Applicants by Citizenship

YEAR	U.S.		FOREIGN		UNKNOWN	TOTAL
1959						1280
1960						1594
1961						2274
1962						2376
1963						2884
1964						3591
1965						4026
1966						4109
1967						4709
1968						5215
1969						5999
1974	8744	88.3 %	1162	11.7 %	10	9916
1975	8703	88.1	1170	11.9	907	10780
1976	10018	87.5	1436	12.5	838	12292
1977	10891	88.6	1395	11.4	40	12326
1978 /1	10577	86.8	1606	13.2	817	13000
1980 /2	10070	84.6	1828	15.4	0	11898
1981	9327	84.3	1743	15.7	8	11078
1982 /3	7942	82.2	1714	17.8	365	10021
1983	7339	80.1	1827	19.9	832	9998
1984	7586	80.7	1810	19.3	723	10119
1985	7451	79.3	1944	20.7	720	10115
1986	7989	76.1	2504	23.9	388	10881
1987	7473	74.7	2525	25.3	1136	11134
1988	8097	74.6	2756	25.4	42	10895

Applicants by Sex

YEAR	MALES		FEMALES		UNKNOWN	TOTAL
1974	5417	56.6 %	4155	43.4 %	344	9916
1975	5394	54.7	4469	45.3	917	10780
1976	5893	51.6	5522	48.4	877	12292
1977	5929	51.3	5625	48.7	772	12326
1978	5880	48.3	6288	51.7	832	13000
1980	5330	44.9	6547	55.1	21	11898
1981	4683	42.3	6383	57.7	12	11078
1982	4221	42.7	5658	57.3	142	10021
1983	4005	41.5	5636	58.5	357	9998
1984	3828	40.2	5698	59.8	593	10119
1985	3926	40.9	5680	59.1	509	10115
1986	4523	43.3	5914	56.7	444	10881
1987	4112	41.2	5874	58.8	1148	11134
1988	4443	41.2	6340	58.8	112	10895

/1 Puerto Rico did not report in 1978.
/2 Minnesota did not report in 1980 and 1981.
/3 San Diego did not report in 1982.

No applicant data was collected in 1979. Data for 1959-1969 is from Dr. James Troupin and includes two Canadian schools.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF APPLICANTS (Continued)

U.S. Applicants by Race/Ethnicity

YEAR	ASIAN		BLACK		HISPANIC PUERTO RICO		HISPANIC MAINLAND		AMERIND		WHITE		UNKNOWN	TOTAL
1980	436	5.2%	824	9.8%	149	1.8%	374	4.5%	113	1.3%	6500	77.4%	167*	10070
1981	481	5.9	760	9.3	277	3.4	257	3.1	88	1.1	6334	77.3	1130	9327
1982	350	5.6	624	9.9	287	4.6	184	2.9	60	1.0	4774	76.0	1663	7942
1983	327	5.1	573	9.0	280	4.4	192	3.0	54	.8	4941	77.6	972	7339
1984	503	7.5	595	8.8	278	4.1	216	3.2	56	.8	5093	75.6	845	7586
1985	444	6.7	550	8.3	289	4.3	198	3.0	55	.8	5126	76.9	789	7451
1986	527	7.2	607	8.3	289	4.0	283	3.9	86	1.2	5514	75.5	683	7989
1987	507	7.1	612	8.6	280	3.9	292	4.1	89	1.2	5348	75.0	345	7473
1988	557	7.1	712	9.1	348	4.4	282	3.6	88	1.1	5862	74.7	248	8097

Applicants by Area of Specialization

YEAR	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC	
1974	449.0	4.7%	768.0	8.1%	3168.0	33.4%	885.0	9.3%	721.0	7.6%	1065.0	11.2%
1975	425.0	4.2	951.0	9.3	3502.0	34.4	838.0	8.2	745.0	7.3	1039.0	10.2
1976	507.0	4.2	1472.0	12.1	4584.0	37.6	809.0	6.6	770.0	6.3	1214.0	10.0
1977	490.0	4.0	1563.0	12.9	4279.0	35.2	1023.0	8.4	678.0	5.6	1528.0	12.6
1978	464.0	4.0	1422.0	12.4	4337.0	37.8	839.0	7.3	743.0	6.5	1488.0	13.0
1980	392.0	3.3	1372.0	11.7	3558.0	30.4	1023.0	8.7	944.0	8.1	1385.0	11.8
1981	366.0	3.3	1302.0	11.8	2959.5	26.7	1005.0	9.1	906.5	8.2	1307.0	11.8
1983	444.0	4.6	1386.0	14.3	2903.0	30.0	786.5	8.1	834.5	8.6	1233.0	12.8
1984	432.0	4.6	1296.0	13.7	2816.0	29.7	800.0	8.4	927.5	9.8	1175.5	12.4
1985	393.0	4.1	1372.5	14.4	2797.5	29.3	829.5	8.7	963.0	10.1	1104.5	11.6
1986	487.0	4.7	1494.5	14.4	2954.5	28.5	866.5	8.3	1156.0	11.1	1199.5	11.6
1987	589.0	5.6	1754.5	16.7	2716.0	25.8	748.0	7.1	1047.5	10.0	1137.5	10.8
1988	521.5	5.0	1692.0	16.3	2673.0	25.8	877.0	8.5	1006.5	9.7	1128.5	10.9

YEAR	OS&H		NUTR		BIOMED		OTHER		NONSPEC		NONDEGREE	UNKNOWN	TOTAL
1974	63.0	.7%	458.0	4.8%	N/A	N/A	1503.0	15.8%	418.0	4.4%	N/A	418.0	9916.0
1975	155.0	1.5	503.0	4.9	282.0	2.8%	884.0	8.7	864.0	8.5	N/A	592.0	10780.0
1976	138.0	1.1	581.0	4.8	366.0	3.0	1750.0	14.4	N/A	N/A	N/A	101.0	12292.0
1977	226.0	1.9	545.0	4.5	351.0	2.9	1171.0	9.6	291.0	2.4	N/A	185.0	12326.0
1978	225.0	2.0	621.0	5.4	251.0	2.2	1096.0	9.5	N/A	N/A	N/A	1514.0	13000.0
1980	328.0	2.8	678.0	5.8	356.0	3.0	1686.0	14.4	N/A	N/A	N/A	176.0	11898.0
1981	327.0	3.0	436.5	3.9	443.0	4.0	2025.5	18.3	N/A	N/A	N/A	0.0	11078.0
1983	118.5	1.2	391.0	4.0	319.0	3.3	937.5	9.7	309.0	3.2	248.0	92.0	9998.0
1984	124.0	1.3	406.0	4.3	331.0	3.5	859.0	9.1	306.0	3.2	350.0	296.0	10119.0
1985	153.0	1.6	353.0	3.7	319.0	3.3	936.0	9.8	331.0	3.5	456.0	107.0	10115.0
1986	95.0	.9	332.5	3.2	292.0	2.8	1037.5	10.0	463.0	4.5	418.0	85.0	10881.0
1987	194.0	1.8	321.5	3.1	256.0	2.4	1263.0	12.0	498.0	4.7	553.0	56.0	11134.0
1988	166.5	1.6	293.0	2.8	287.0	2.8	1186.0	11.4	536.0	5.2	452.0	76.0	10895.0

No data on areas was collected in 1979 or 1982.
Beginning in 1981 applicants with dual specialization are counted as .5 in each area.
Until 1983 nondegree applicants were counted under their area of specialization or under nonspecialized.

TOTAL APPLICATIONS
U.S. SCHOOLS OF PUBLIC HEALTH
(Fall Semester)

SCHOOL	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 (Prelim)
ALA	*	*	*	*	46		116	98	60	100	81	121	138	248	260	284
BOSTON	*	*	*	*	*		*	149	202	236	315	295	322	319	317	360
CAL-BERK	842	1022	1125	897	1084	D	874	835	652	714	669	671	712	781	719	759
CAL-UCLA	1238	1217	1097	795	930	A	1050	847	791	763	750	727	848	795	699	702
COLUMBIA	473	623	799	790	867	T	774	611	654	680	625	618	609	522	562	600
HARVARD	549	812	869	791	947	A	972	866	740	626	734	730	744	673	807	822
HAWAII	276	313	385	388	343		377	386	319	263	196	241	230	241	195	237
ILL	203	255	365	287	371	N	352	376	143	121	261	320	122	187	191	122
JHU	758	938	1129	1176	1292	O	1272	1326	1249	1235	1123	1138	1207	1388	1252	1313
L.LINDA	194	198	265	260	245	T	212	376	174	145	177	185	221	189	189	221
MASS	190	195	236	235	310		259	262	265	219	170	192	192	251	211	210
MICH	1057	1273	1159	1112	1113	A	1153	1056	761	763	768	733	796	882	1021	954
MINN	716	679	753	947	800	V	**	**	645	453	433	426	319	350	398	455
No.CAR	1001	1026	1268	1506	1464	A	1449	1347	1083	1057	1159	942	985	1002	955	1183
OKLA	120	146	205	266	256	I	205	116	112	195	147	153	193	164	190	190
PITT	615	603	748	611	782	L	557	636	492	495	530	493	496	479	507	485
PR	492	221	96	178	**	A	160	300	312	295	301	289	415	445	367	424
S.DIEGO	*	*	*	*	*	L	*	*	**	164	187	226	187	226	196	220
So.CAR	*	*	*	67	111	B	165	162	102	189	231	249	494	250	274	365
So.FLA	*	*	*	*	*	E	*	*	*	*	*	*	58	114	94	126
TEXAS	441	386	473	765	618		576	445	368	339	360	367	433	407	388	415
TULANE	179	134	453	455	546		572	143	356	368	347	312	337	417	384	688
WASH	261	338	383	412	450		446	376	250	322	287	345	472	485	402	571
YALE	311	401	484	388	425		357	365	291	241	268	342	341	319	317	328
TOTAL	9916	10780	12292	12326	13000		11898	11078	10021	9983	10119	10115	10881	11134	10895	12034
***	8708	9880	11443	11134	12043		11457	10369	8700	8546	8571	8507	8948	9182	8989	9800
		+13%	+16%	-3%	+8%		-5%	-10%	-16%	-2%	+0.3%	-0.7%	+5.2%	+2.6%	-2.1%	+9.0%

* Indicates school not yet in operation.
** Indicates missing data.
*** Trends for 17 schools with complete data for all years.

U.S. SCHOOLS OF PUBLIC HEALTH
TRENDS IN APPLICATIONS/ACCEPTANCES/ENROLLMENTS /1
FALL 1988

	No. of Schools	APPLICATIONS			NEW ENROLLMENTS		
		No. Made	No. Accepted	% Accepted	No.	As % of Acceptances	As % of Applications
1961-62	14	2274	1465	64.4 %	---	---	---
1965-66	15	4026	2543	63.2	1797	70.7 %	44.6 %
1967-68	17	4709	2682	57.0	1947	72.6	41.3
1969-70	18	5999	3321	55.4	2317	69.8	38.6
1974-75	17	8708	---	---	2715	---	31.2
1976-77	17	11443	---	---	3051	---	26.7
1978-79	17	12043	---	---	3391	---	28.2
1981-82	17	10369	5217	50.3	---	---	---
1983-84	17	8561	5352	62.5	2825	52.8	33.0
1985-86	17	8509	5314	62.5	3021	56.8	35.5
1987-88	17	9182	5570	60.7	3093	55.5	33.7
1988-89	17	8989	5625	62.6	3192	56.7	35.5

/1 ASPH data (1974-1987) includes the 17 schools with complete data for those years. 1960s data from Dr. James Troupin includes two Canadian schools.

II. NEW ENROLLMENTS, FALL 1988

There were 4,078 new enrollments in the 24 schools for Fall 1988, about the same as Fall 1987 (4,027). New enrollments represented over 37% of the total enrollment in the schools (37% in 1987).

The proportion of new female students was about 60% (64% for U.S. new enrollments), and foreign students represented about 18% of new enrollments. The number and proportion of new minority students again increased in Fall 1988 (740 or 23%).

Table 2-6 shows the trends in new enrollments since the 1974-75 academic year. In the early 1970s, new enrollments constituted about half of the total enrollments in the schools of public health. Today, new enrollments represent less than 40% of total enrollments. The increased length of master's degree programs (from one to two years for most programs) and the currently high proportion of part-time students are chief factors involved in this change.

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF NEW ENROLLMENTS
FALL 1988

SEX & CITIZENSHIP

MALES	1620	40.0 %	U.S.	3332	82.0 %
FEMALES	2435	60.0	FOREIGN	732	18.0
UNKNOWN	23	---	UNKNOWN	14	---
TOTAL	4078	100.0 %	TOTAL	4078	100.0 %

U.S. MALES	1197	36.0 %	FOR. MALES	420	57.8 %
U.S. FEMALES	2125	64.0	FOR. FEMALES	307	42.2
UNKNOWN	10	---	UNKNOWN	5	---
TOTAL	3332	100.0 %	TOTAL	732	100.0 %

RACE/ETHNICITY (U.S. CITIZENS)

	MALES	FEMALES	UNKNOWN	TOTAL	
ASIAN	85	112	0	197	6.1 %
BLACK	83	167	0	250	7.8
HISPANIC					
PUERTO RICO	45	111	0	156	4.8
MAINLAND	40	62	0	102	3.2
AMERIND	11	24	0	35	1.1
(TOTAL MIN.)	(264)	(476)	(0)	(740)	(23.0)
WHITE	906	1576	0	2482	77.0
UNKNOWN	27	73	10	110	---
TOTAL	1197	2125	10	3332	100.0 %

AREA OF SPECIALIZATION

BIOSTAT	158.5	4.2 %
EPID	566.5	15.2
HSA	978.0	26.2
PHP&PM	320.0	8.6
H.EDUC/BS	375.5	10.1
ENV.SC	412.5	11.0
OS&H	81.5	2.2
NUTR	108.0	2.9
BIOMED	67.0	1.8
OTHER	372.5	10.0
NONSPEC	296.0	7.9
NONDEGREE	324.0	---
UNKNOWN	18.0	---
TOTAL	4078.0	100.0 %

TABLE 2-1
U.S. SCHOOLS OF PUBLIC HEALTH
NEW ENROLLMENTS BY SCHOOL, SEX & CITIZENSHIP
FALL 1988

SCHOOL	MALE	FEMALE	UNKNOWN	TOTAL
ALA	81.0	71.0	.0	152.0
BOSTON	37.0	128.0	.0	165.0
CAL-BERK	64.0	164.0	.0	228.0
CAL-UCLA	71.0	155.0	.0	226.0
COLUMBIA	65.0	144.0	.0	209.0
HARVARD	166.0	149.0	.0	315.0
HAWAII	26.0	67.0	.0	93.0
ILL	36.0	36.0	.0	72.0
JHU	179.0	201.0	.0	380.0
L.LINDA	32.0	54.0	.0	86.0
MASS	15.0	31.0	.0	46.0
MICH	145.0	200.0	.0	345.0
MINN	61.0	90.0	13.0	164.0
NO.CAR	107.0	171.0	.0	278.0
OKLA	41.0	69.0	.0	110.0
PITT	59.0	101.0	.0	160.0
PR	51.0	113.0	.0	164.0
S.DIEGO	27.0	42.0	.0	69.0
SO.CAR	53.0	64.0	.0	117.0
SO.FLA	20.0	35.0	.0	55.0
TEXAS	68.0	99.0	.0	167.0
TULANE	93.0	98.0	.0	191.0
WASH	74.0	78.0	10.0	162.0
YALE	49.0	75.0	.0	124.0
Total	1620.0	2435.0	23.0	4078.0

SCHOOL	U.S.	FOREIGN	UNKNOWN	TOTAL
ALA	133.0	19.0	.0	152.0
BOSTON	153.0	12.0	.0	165.0
CAL-BERK	204.0	24.0	.0	228.0
CAL-UCLA	165.0	61.0	.0	226.0
COLUMBIA	176.0	33.0	.0	209.0
HARVARD	213.0	102.0	.0	315.0
HAWAII	69.0	24.0	.0	93.0
ILL	56.0	16.0	.0	72.0
JHU	258.0	122.0	.0	380.0
L.LINDA	60.0	26.0	.0	86.0
MASS	38.0	8.0	.0	46.0
MICH	277.0	68.0	.0	345.0
MINN	133.0	17.0	14.0	164.0
NO.CAR	238.0	40.0	.0	278.0
OKLA	107.0	3.0	.0	110.0
PITT	148.0	12.0	.0	160.0
PR	156.0	8.0	.0	164.0
S.DIEGO	61.0	8.0	.0	69.0
SO.CAR	102.0	15.0	.0	117.0
SO.FLA	52.0	3.0	.0	55.0
TEXAS	153.0	14.0	.0	167.0
TULANE	125.0	66.0	.0	191.0
WASH	153.0	9.0	.0	162.0
YALE	102.0	22.0	.0	124.0
Total	3332.0	732.0	14.0	4078.0

TABLE 2-2
U.S. SCHOOLS OF PUBLIC HEALTH
NEW ENROLLMENTS BY SCHOOL & RACE/ETHNICITY
FALL 1988

SCHOOL	ASIAN	BLACK	HISPANIC	AMERIND	TOTAL MINORITY
ALA	4.0	21.0	2.0	.0	27.0
BOSTON	2.0	4.0	3.0	.0	9.0
CAL-BERK	17.0	19.0	6.0	5.0	47.0
CAL-UCLA	19.0	13.0	20.0	4.0	56.0
COLUMBIA	16.0	8.0	2.0	.0	26.0
HARVARD	21.0	19.0	4.0	1.0	45.0
HAWAII	22.0	2.0	1.0	5.0	30.0
ILL	9.0	8.0	2.0	.0	19.0
JHU	16.0	15.0	7.0	1.0	39.0
L.LINDA	3.0	6.0	1.0	1.0	11.0
MASS	1.0	1.0	.0	.0	2.0
MICH	8.0	35.0	6.0	2.0	51.0
MINN	4.0	1.0	1.0	1.0	7.0
NO.CAR	4.0	14.0	3.0	2.0	23.0
OKLA	3.0	5.0	1.0	12.0	21.0
PITT	10.0	4.0	.0	.0	14.0
PR	.0	.0	156.0	.0	156.0
S.DIEGO	6.0	7.0	4.0	.0	17.0
SO.CAR	2.0	24.0	1.0	.0	27.0
SO.FLA	1.0	3.0	3.0	.0	7.0
TEXAS	11.0	7.0	24.0	.0	42.0
TULANE	6.0	19.0	4.0	.0	29.0
WASH	5.0	3.0	.0	1.0	9.0
YALE	7.0	12.0	7.0	.0	26.0
Total	197.0	250.0	258.0	35.0	740.0

SCHOOL	WHITE	UNKNOWN	TOTAL
ALA	106.0	.0	133.0
BOSTON	80.0	64.0	153.0
CAL-BERK	157.0	.0	204.0
CAL-UCLA	101.0	8.0	165.0
COLUMBIA	150.0	.0	176.0
HARVARD	168.0	.0	213.0
HAWAII	37.0	2.0	69.0
ILL	37.0	.0	56.0
JHU	219.0	.0	258.0
L.LINDA	49.0	.0	60.0
MASS	34.0	2.0	38.0
MICH	210.0	16.0	277.0
MINN	126.0	.0	133.0
NO.CAR	215.0	.0	238.0
OKLA	86.0	.0	107.0
PITT	134.0	.0	148.0
PR	.0	.0	156.0
S.DIEGO	36.0	8.0	61.0
SO.CAR	75.0	.0	102.0
SO.FLA	45.0	.0	52.0
TEXAS	111.0	.0	153.0
TULANE	96.0	.0	125.0
WASH	134.0	10.0	153.0
YALE	76.0	.0	102.0
Total	2482.0	110.0	3332.0

TABLE 2-3
U.S. SCHOOLS OF PUBLIC HEALTH
NEW ENROLLMENTS BY AREA, SEX & CITIZENSHIP
FALL 1988

AREA	MALE	FEMALE	UNKNOWN	TOTAL
BIOSTAT	66.5	91.0	1.0	158.5
EPID	259.0	307.5	.0	566.5
HSA	365.0	600.0	13.0	978.0
PHP&PM	86.0	226.0	8.0	320.0
H.EDUC/BS	69.5	306.0	.0	375.5
ENV.SC	232.5	180.0	.0	412.5
OS&H	53.5	28.0	.0	81.5
NUTR	15.0	92.0	1.0	108.0
BIOMED	29.0	38.0	.0	67.0
OTHER	154.0	218.5	.0	372.5
NONSPEC	143.0	153.0	.0	296.0
NONDEGREE	136.0	188.0	.0	324.0
UNKNOWN	11.0	7.0	.0	18.0
Total	1620.0	2435.0	23.0	4078.0

AREA	U.S.	FOREIGN	UNKNOWN	TOTAL
BIOSTAT	116.0	39.5	3.0	158.5
EPID	425.5	141.0	.0	566.5
HSA	881.0	97.0	.0	978.0
PHP&PM	259.0	55.0	6.0	320.0
H.EDUC/BS	341.5	34.0	.0	375.5
ENV.SC	348.5	60.0	4.0	412.5
OS&H	71.0	10.5	.0	81.5
NUTR	88.0	19.0	1.0	108.0
BIOMED	45.0	22.0	.0	67.0
OTHER	242.5	130.0	.0	372.5
NONSPEC	249.0	47.0	.0	296.0
NONDEGREE	249.0	75.0	.0	324.0
UNKNOWN	16.0	2.0	.0	18.0
Total	3332.0	732.0	14.0	4078.0

AREA	U.S. MALES	U.S. FEMALES	FOR. MALES	FOR. FEMALES
BIOSTAT	48.0	68.0	18.5	21.0
EPID	176.0	249.5	83.0	58.0
HSA	313.0	558.0	52.0	42.0
PHP&PM	57.0	202.0	29.0	24.0
H.EDUC/BS	57.5	284.0	12.0	22.0
ENV.SC	193.5	155.0	36.0	24.0
OS&H	44.0	27.0	9.5	1.0
NUTR	8.0	80.0	7.0	12.0
BIOMED	19.0	26.0	10.0	12.0
OTHER	74.0	168.5	80.0	50.0
NONSPEC	112.0	137.0	31.0	16.0
NONDEGREE	85.0	164.0	51.0	24.0
UNKNOWN	10.0	6.0	1.0	1.0
Total	1197.0	2125.0	420.0	307.0

TABLE 2-4
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. NEW ENROLLMENTS BY AREA & RACE/ETHNICITY
FALL 1988

AREA	ASIAN	BLACK	HISPANIC	
			PUERTO RICO	MAINLAND
BIOSTAT	15.0	3.0	5.0	1.0
EPID	31.0	26.5	27.0	12.0
HSA	45.5	85.0	15.0	28.0
PHP&PM	20.0	22.0	3.0	6.0
H.EDUC/BS	13.0	32.5	15.0	12.0
ENV.SC	30.5	15.0	13.0	4.0
OS&H	2.0	3.0	0.0	2.0
NUTR	4.0	5.5	7.0	3.0
BIOMED	2.0	1.0	0.0	0.0
OTHER	14.0	15.5	0.0	15.0
NONSPEC	15.0	22.0	18.0	18.0
NONDEGREE	5.0	16.0	53.0	1.0
UNKNOWN	0.0	3.0	0.0	0.0
TOTAL	197.0	250.0	156.0	102.0

AREA	AMERIND	WHITE	UNKNOWN	TOTAL
BIOSTAT	0.0	90.0	2.0	116.0
EPID	3.0	318.0	8.0	425.5
HSA	16.0	674.5	17.0	881.0
PHP&PM	4.0	202.0	2.0	259.0
H.EDUC/BS	7.0	257.0	5.0	341.5
ENV.SC	2.0	281.0	3.0	348.5
OS&H	0.0	63.0	1.0	71.0
NUTR	1.0	65.5	2.0	88.0
BIOMED	0.0	42.0	0.0	45.0
OTHER	1.0	194.0	3.0	242.5
NONSPEC	1.0	175.0	0.0	249.0
NONDEGREE	0.0	107.0	67.0	249.0
UNKNOWN	0.0	13.0	0.0	16.0
TOTAL	35.0	2482.0	110.0	3332.0

TABLE 2-5
U.S. SCHOOLS OF PUBLIC HEALTH
NEW ENROLLMENTS AND TOTAL ENROLLMENTS BY SCHOOL
FALL 1988

SCHOOL	NEW ENROLLMENTS	TOTAL ENROLLMENTS	NEW ENROLLMENTS AS % OF TOTAL ENROLLMENTS
ALA	152	338	45.0 %
BOSTON	165	300	55.0
CAL-BERK	228	493	46.2
CAL-UCLA	226	617	36.6
COLUMBIA	209	459	45.5
HARVARD	315	545	57.8
HAWAII	93	248	37.5
ILL	72 /1	350	20.6
JHU	380	1003	37.9
L.LINDA	86 /2	514	16.7
MASS	46	154	29.9
MICH	345	729	47.3
MINN	164	363	45.2
No.CAR	278	773	36.0
OKLA	110	414	26.6
PITT	160	617	25.9
PR	164	422	38.9
S.DIEGO	69	272	25.4
So.CAR	117	308	38.0
So.FLA	55 /1	315	17.5
TEXAS	167	536	31.2
TULANE	191	480	39.8
WASH	162	443	36.6
YALE	124	290	42.8
TOTAL	4078	10983	37.1 %

/1 Excludes non-degree students.
/2 Approximately half of Loma Linda's students are in off-campus programs. These masters programs are generally of 4 years' duration.

TABLE 2-6
U.S. SCHOOLS OF PUBLIC HEALTH
TRENDS IN NEW ENROLLMENTS

YEAR	NEW ENROLLMENTS	TOTAL ENROLLMENTS	NEW ENROLLMENTS AS % OF TOTAL ENROLLMENTS
1974	2980	5821	51.2 %
1975	2708	6461	41.9
1976	3317	6615	50.1
1977	3427	6841	50.1
1978	3735	7722	48.4
1979	N/A	8215	N/A
1980	3348	8486	39.5
1981	N/A	9047	N/A
1982	3338	8896	37.5
1983	3444	8937	38.5
1984	3812	8957	42.6
1985	3836	9494	40.4
1986	3928	10104	38.9
1987	4027	10761	37.4
1988	4078	10983	37.1
1989 (Est.)	4326	11118	38.9

III. STUDENTS

A. Fall 1988 Students

There were 10,983 students enrolled in the 24 schools in Fall 1988, a slight increase over Fall 1987 (10,761). Of this total, 61% were female, about 17% were foreign, and 20% of the U.S. students were members of minority groups. Tables 3-1 and 3-2 show demographic breakdowns of students by school. There were some significant differences among schools regarding the demographic characteristics of their students. For example, 6 schools had over 24% foreign enrollments, while other schools had relatively few foreign students. There were also some significant differences in the proportion of male/female and minority students by school.

Almost half (49%) of the students were enrolled in MPH programs and about 70% of the total students were in master's degree programs. About 22% were in doctoral degree programs and less than 9% were nondegree students. Table 3-3 shows differences in degree programs based on demographic characteristics. A slightly higher proportion of males (24%) still pursue doctorates than females (20%), and a higher proportion of foreign students (30%) pursue doctorates than U.S. students (20%). In 1987, 23% of the White students were pursuing doctorates compared to 19% of Asian students, 14% of Black students, 15% of mainland Hispanic students, and 7% of Native American students.

Over one-half of the students were enrolled in three program areas. Health services administration is the largest program area in schools of public health and had over 26% of the students in Fall 1988; epidemiology had 15% of the students and environmental sciences had 13%.

There were some differences in program area based on demographic characteristics (Table 3-7). Women were represented more in public health practice, health education and nutrition than men and less in environmental sciences and occupational health. Foreign students were represented more in "other" areas, principally international health and population studies, and less in health services administration than U.S. students. Asian students had more representation in biostatistics (over 8%). Blacks (35%) and American Indians (56%) were represented more in health services administration. Hispanic students at Puerto Rico were represented

more in health education (19%), environmental sciences (26%) and nonspecialized studies (13%), while mainland Hispanic students were represented more in health services administration (26%), epidemiology (14%), and "other" areas (14%).

The areas with the largest proportion of doctoral students (Table 3-9) were biomedical sciences (63%), biostatistics (45%), epidemiology (36%), and environmental sciences (28%).

Over one-third (36%) of the Fall 1988 students were part-time. The proportion of part-time students varied greatly among schools (Table 3-11), and 9 schools had more part-time than full-time.

ASPH began to collect data on students in non-traditional degree programs in 1983. A total of 913 students were reported in non-traditional degree programs at 10 schools. These students constituted over 8% of the total enrollments for Fall 1988.

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF STUDENTS
FALL 1988

SEX & CITIZENSHIP

MALES	4292	39.1 %	U.S.	9144	83.4 %
FEMALES	6683	60.9	FOREIGN	1823	16.6
UNKNOWN	8	---	UNKNOWN	16	---
TOTAL	10983	100.0 %	TOTAL	10983	100.0 %
U.S. MALES	3206	35.1 %	FOR. MALES	1083	59.5 %
U.S. FEMALES	5938	64.9	FOR. FEMALES	736	40.5
UNKNOWN	0	---	UNKNOWN	4	---
TOTAL	9144	100.0 %	TOTAL	1823	100.0 %

RACE/ETHNICITY

(U.S. CITIZENS)	MALES	FEMALES	UNKNOWN	TOTAL	
ASIAN	174	321	0	495	5.5 %
BLACK	178	420	0	598	6.6
HISPANIC					
PUERTO RICO	98	251	0	349	3.9
MAINLAND	124	176	0	300	3.3
AMERIND	32	69	0	101	1.1
(TOTAL MIN.)	(606)	(1237)	(0)	(1843)	(20.4)
WHITE	2553	4620	0	7173	79.6
UNKNOWN	47	81	0	128	---
TOTAL	3206	5938	0	9144	100.0 %

STATUS

FULL-TIME	6131	55.8 %
PART-TIME	3939	35.9
OTHER	913	8.3
UNKNOWN	---	---
TOTAL	10983	100.0 %

AREA OF SPECIALIZATION

BIOSTAT	553.5	5.5 %	NUTR	280.0	2.8 %
EPID	1546.5	15.4	BIOMED	250.0	2.5
HSA	2664.5	26.5	OTHER	937.0	9.3
PHP&PM	725.0	7.2	NONSPEC	520.0	5.2
H.EDUC/BS	1069.5	10.6	NONDEGREE	933.0	---
ENV.SC	1291.5	12.9	UNKNOWN	2.0	---
OS&H	210.5	2.1	TOTAL	10983.0	100.0 %

DEGREE OBJECTIVE

MPH	5381	49.0 %	OTHER DOCT.	75	.7 %
MS	1084	9.9	JOINT DEGREE	131	1.2
MSPH	344	3.1	NONDEGREE	933	8.5
MHA/MHSA	451	4.1	UNKNOWN	2	---
OTHER MASTERS	289	2.6	TOTAL	10983	100.0 %
DrPH	725	6.6	TOTAL MASTERS	7680	69.9 %
ScD	320	2.9	TOTAL DOCT	2368	21.6 %
PhD	1248	11.4			

TABLE 3-1
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY SCHOOL, SEX & CITIZENSHIP
FALL 1988

SCHOOL	MALE		FEMALE		UNKNOWN	TOTAL
ALA	174	51.5 %	164	48.5 %	0	338
BOSTON	74	24.7	226	75.3	0	300
CAL-BERK	159	32.3	334	67.7	0	493
CAL-UCLA	237	38.4	380	61.6	0	617
COLUMBIA	157	34.2	302	65.8	0	459
HARVARD	279	51.2	266	48.8	0	545
HAWAII	77	31.0	171	69.0	0	248
ILL	113	32.5	235	67.5	2	350
JHU	431	43.0	572	57.0	0	1003
L.LINDA	213	41.4	301	58.6	0	514
MASS	61	39.6	93	60.4	0	154
MICH	314	43.1	415	56.9	0	729
MINN	128	35.9	229	64.1	6	363
No.CAR	284	36.7	489	63.3	0	773
OKLA	175	42.3	239	57.7	0	414
PITT	234	37.9	383	62.1	0	617
PR	151	35.8	271	64.2	0	422
S.DIEGO	84	30.9	188	69.1	0	272
So.CAR	123	39.9	185	60.1	0	308
So.FLA	107	34.0	208	66.0	0	315
TEXAS	197	36.8	339	63.2	0	536
TULANE	235	49.0	245	51.0	0	480
WASH	186	42.0	257	58.0	0	443
YALE	99	34.1	191	65.9	0	290
TOTAL	4292	39.1 %	6683	60.9 %	8	10983

SCHOOL	U.S.		FOREIGN		UNKNOWN	TOTAL
ALA	295	87.3 %	43	12.7 %	0	338
BOSTON	281	93.7	19	6.3	0	300
CAL-BERK	449	91.1	44	8.9	0	493
CAL-UCLA	464	75.2	153	24.8	0	617
COLUMBIA	397	86.5	62	13.5	0	459
HARVARD	396	72.7	149	27.3	0	545
HAWAII	188	75.8	60	24.2	0	248
ILL	285	82.8	59	17.2	6	350
JHU	750	74.8	253	25.2	0	1003
L.LINDA	342	66.5	172	33.5	0	514
MASS	125	81.2	29	18.8	0	154
MICH	610	83.7	119	16.3	0	729
MINN	309	87.5	44	12.5	10	363
No.CAR	669	86.5	104	13.5	0	773
OKLA	397	95.9	17	4.1	0	414
PITT	554	89.8	63	10.2	0	617
PR	349	82.7	73	17.3	0	422
S.DIEGO	261	96.0	11	4.0	0	272
So.CAR	275	89.3	33	10.7	0	308
So.FLA	299	94.9	16	5.1	0	315
TEXAS	486	90.7	50	9.3	0	536
TULANE	331	69.0	149	31.0	0	480
WASH	396	89.4	47	10.6	0	443
YALE	236	81.4	54	18.6	0	290
TOTAL	9144	83.4 %	1823	16.6 %	16	10983

TABLE 3-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. STUDENTS BY SCHOOL & RACE/ETHNICITY
FALL 1988

SCHOOL	ASIAN		BLACK		HISPANIC		AMERIND		TOTAL MINORITY	
ALA	11	3.7 %	41	13.9 %	3	1.0 %	2	.7 %	57	19.3 %
BOSTON	6	2.1	10	3.6	6	2.1	0	.0	22	7.8
CAL-BERK	33	7.3	28	6.2	20	4.5	12	2.7	93	20.7
CAL-UCLA	47	10.5	30	6.7	52	11.7	4	.9	133	29.8
COLUMBIA	33	8.3	20	5.0	21	5.3	0	.0	74	18.6
HARVARD	34	8.6	25	6.3	7	1.8	1	.3	67	16.9
HAWAII	70	38.5	2	1.1	1	.5	8	4.4	81	44.5
ILL	11	3.9	44	15.4	8	2.8	1	.4	64	22.5
JHU	44	5.9	48	6.4	17	2.3	3	.4	112	14.9
L.LINDA	30	8.8	11	3.2	9	2.6	7	2.0	57	16.7
MASS	4	3.3	5	4.1	2	1.6	0	.0	11	9.0
MICH	18	3.0	53	8.9	15	2.5	2	.3	88	14.8
MINN	3	1.2	3	1.2	1	.4	1	.4	8	3.2
No.CAR	13	1.9	43	6.4	7	1.0	8	1.2	71	10.6
OKLA	5	1.3	29	7.3	5	1.3	37	9.3	76	19.1
PITT	29	5.2	25	4.5	7	1.3	1	.2	62	11.2
PR	0	.0	0	.0	349	100.0	0	.0	349	100.0
S.DIEGO	18	7.3	11	4.5	16	6.5	4	1.6	49	19.9
So.CAR	4	1.5	36	13.3	2	.7	2	.7	44	16.2
So.FLA	5	1.7	16	5.4	22	7.4	1	.3	44	14.8
TEXAS	35	7.2	48	9.9	50	10.3	1	.2	134	27.6
TULANE	9	2.8	34	10.4	11	3.4	1	.3	55	16.8
WASH	18	4.6	6	1.5	10	2.5	4	1.0	38	9.6
YALE	15	6.4	30	12.7	8	3.4	1	.4	54	22.9
TOTAL	495	5.5 %	598	6.6 %	649	7.2 %	101	1.1 %	1843	20.4 %

SCHOOL	WHITE		UNKNOWN	TOTAL
ALA	238	80.7 %	0	295
BOSTON	259	92.2	0	281
CAL-BERK	356	79.3	0	449
CAL-UCLA	313	70.2	18	464
COLUMBIA	323	81.4	0	397
HARVARD	329	83.1	0	396
HAWAII	101	55.5	6	188
ILL	221	77.5	0	285
JHU	638	85.1	0	750
L.LINDA	285	83.3	0	342
MASS	111	91.0	3	125
MICH	508	85.2	14	610
MINN	240	96.8	61	309
No.CAR	598	89.4	0	669
OKLA	321	80.9	0	397
PITT	492	88.8	0	554
PR	0	.0	0	349
S.DIEGO	197	80.1	15	261
So.CAR	227	83.8	4	275
So.FLA	254	85.2	1	299
TEXAS	352	72.4	0	486
TULANE	272	83.2	4	331
WASH	356	90.4	2	396
YALE	182	77.1	0	236
TOTAL	7173	79.6 %	128	9144

TABLE 3-3
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY DEGREE OBJECTIVE, SEX, CITIZENSHIP & RACE/ETHNICITY /1
FALL 1988

DEGREE OBJECTIVE	MALE		FEMALE		U.S.		FOREIGN	
MPH	1961	45.7 %	3417	51.1	4514	49.4 %	863	47.3 %
MS	429	10.0	654	9.8	930	10.2	149	8.2
MSPH	157	3.7	187	2.8	302	3.3	42	2.3
MHA/MHSA	180	4.2	270	4.0	431	4.7	20	1.1
OTHER.MAST	109	2.5	180	2.7	255	2.8	34	1.9
DrPH	292	6.8	433	6.5	564	6.2	161	8.8
ScD	147	3.4	173	2.6	235	2.6	85	4.7
PhD	553	12.9	694	10.4	959	10.5	288	15.8
OTHER.DOC	36	.8	39	.6	60	.7	15	.8
JOINT.DEG	53	1.2	78	1.2	124	1.4	7	.4
NONDEGREE	375	8.7	556	8.3	768	8.4	159	8.7
UNKNOWN	0	---	2	---	2	---	0	---
TOTAL	4292	100.0 %	6683	100.0 %	9144	100.0 %	1823	100.0 %
% MASTERS /2	67.3		71.6		71.7		61.2 %	
% DOCT. /2	24.0		20.0		19.9		30.1 %	

DEGREE OBJECTIVE	ASIAN		BLACK		HISPANIC			
					PUERTO RICO		MAINLAND	
MPH	289	58.4 %	343	57.4 %	62	17.8 %	196	65.3 %
MS	47	9.5	29	4.8	127	36.4	19	6.3
MSPH	9	1.8	31	5.2	0	.0	3	1.0
MHA/MHSA	8	1.6	22	3.7	27	7.7	4	1.3
OTHER.MAST	9	1.8	10	1.7	82	23.5	2	.7
DrPH	32	6.5	42	7.0	0	.0	20	6.7
ScD	11	2.2	8	1.3	0	.0	4	1.3
PhD	47	9.5	31	5.2	0	.0	19	6.3
OTHER.DOC	4	.8	0	.0	0	.0	1	.3
JOINT.DEG	2	.4	4	.7	0	.0	4	1.3
NONDEGREE	37	7.5	78	13.0	51	14.6	28	9.3
UNKNOWN	0	---	0	---	0	---	0	---
TOTAL	495	100.0 %	598	100.0 %	349	100.0 %	300	100.0 %
% MASTERS /2	73.5		73.4		100.0		76.0	
% DOCT. /2	19.0		13.6		---		14.7	

DEGREE OBJECTIVE	AMERIND		WHITE	
MPH	73	72.3 %	3460	48.2 %
MS	9	8.9	681	9.5
MSPH	2	2.0	257	3.6
MHA/MHSA	0	.0	367	5.1
OTHER.MAST	0	.0	153	2.1
DrPH	4	4.0	463	6.5
ScD	0	.0	212	3.0
PhD	3	3.0	849	11.8
OTHER.DOC	0	.0	54	.8
JOINT.DEG	0	.0	114	1.6
NONDEGREE	10	9.9	561	7.8
UNKNOWN	0	---	2	---
TOTAL	101	100.0 %	7173	100.0 %
% MASTERS /2	83.2		70.2	
% DOCT. /2	6.9		22.0	

/1 Excludes students of unknown sex, citizenship, and race/ethnicity.
/2 Includes joint degrees classified according to school of public health degree.

TABLE 3-4
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY SCHOOL AND DEGREE OBJECTIVE
FALL 1988

SCHOOL	MPH	MS	MSPH	MHA/ MHSA	OTHER MASTERS	DrPH	ScD	PhD	OTHER DOCT.	JOINT DEGREE	NON-DEGREE	UNKNOWN	TOTAL	% MAST. /1	% DOCT. /1	% NON-DEGREE
ALA	131		68			40		14		33	50	2	338	69.0%	16.1%	14.9%
BOSTON	277						23						300	92.3	7.7	0.0
CAL-BERK	323					75		62		33			493	72.2	27.8	0.0
CAL-UCLA	288	121				45		102	40	10	11		617	67.9	30.3	1.8
COLUMBIA	320	21				48					70		459	74.3	10.5	15.2
HARVARD	165	171			2	26	166				15		545	62.0	35.2	2.8
HAWAII	178	18				27		13			12		248	79.0	16.1	4.9
ILL	124	30				31		39			126		350	44.0	20.0	36.0
JHU	208	33			90	87	107	220			258		1003	33.0	41.3	25.7
L.LINDA	357		6	8		30			26		87		514	72.2	10.9	16.9
MASS	50	67						37					154	76.0	24.0	0.0
MICH	331	122		98		36		106			36		729	75.6	19.5	4.9
MINN	201	43		58				61					363	83.2	16.8	0.0
No.CAR	327	40	153		32	61		160					773	71.4	28.6	0.0
OKLA	297	85				4		28					414	92.3	7.7	0.0
PITT	176	25		119	79	46		118			54		617	64.7	26.6	8.7
PR	133	129		27	82						51		422	87.9	0.0	12.1
S.DIEGO	272												272	100.0	0.0	0.0
So.CAR	103	25	71	28	4	24		37	9		7		308	75.0	22.7	2.3
So.FLA	197		17					6			95		315	62.5	1.9	30.2
TEXAS	295	54				79		96			12		536	65.1	32.7	2.2
TULANE	270		29	64		50	24			33	10		480	82.5	15.4	2.1
WASH	154	100		49				88		13	39		443	71.1	20.1	8.8
YALE	204					16		61		9			290	73.4	26.6	0.0
TOTAL	5381	1084	344	451	289	725	320	1248	75	131	933	2	10983	69.9%	21.6%	8.5%

/1 Includes joint degrees classified according to school of public health degree.

TABLE 3-5
U.S. SCHOOLS OF PUBLIC HEALTH
JOINT DEGREES BY AREA, SEX & RACE/ETHNICITY /1
FALL 1988

AREA	SUBAREA	JOINT DEGREE	MALE	FEMALE	TOTAL
BIOSTAT		MS-MA	8.0	7.0	15.0
EPID		MD-MPH	1.0	3.0	4.0
EPID		MPH-MA	1.0	.0	1.0
HSA		MD-MPH	1.0	1.0	2.0
HSA		MD-PhD	.0	1.0	1.0
HSA		MHA-MBA	1.0	2.0	3.0
HSA		MPH-JD	1.0	.0	1.0
HSA		MPH-MA	2.0	2.0	4.0
HSA		MPH-MAIS	1.0	.0	1.0
HSA		MPH-MBA	3.0	1.0	4.0
HSA		MPH-MSN	2.0	3.0	5.0
HSA		MPH-MSW	.0	3.0	3.0
PHP&PM	MCH	MPH-MSW	.0	2.0	2.0
PHP&PM	MCH	MPH-PhD	.0	1.0	1.0
ENV.SC		MPH-JD	.0	1.0	1.0
ENV.SC		MPH-MSN	.0	1.0	1.0
BIOMED		MS-MA	3.0	.0	3.0
OTHER	GENETICS	MS-MA	.0	15.0	15.0
OTHER	POP/FAM.HLTH	MPH-MA	1.0	4.0	5.0
OTHER	TROPICAL.PH	MD-MPH	4.0	5.0	9.0
NONSPEC		MD-MPH	9.0	9.0	18.0
NONSPEC		MPH-JD	7.0	9.0	16.0
NONSPEC		MPH-MBA	8.0	5.0	13.0
NONSPEC		MPH-MPA	.0	2.0	2.0
NONSPEC		MPH-PhD	.0	1.0	1.0
Total			53.0	78.0	131.0

JOINT DEGREE	ASIAN	BLACK	HISPANIC	AMERIND	WHITE
MD-MPH	1.0	2.0	2.0	.0	27.0
MD-PhD	.0	.0	.0	.0	1.0
MHA-MBA	.0	.0	.0	.0	3.0
MPH-JD	.0	.0	.0	.0	18.0
MPH-MA	.0	.0	2.0	.0	7.0
MPH-MAIS	.0	.0	.0	.0	1.0
MPH-MBA	.0	1.0	.0	.0	16.0
MPH-MPA	.0	.0	.0	.0	2.0
MPH-MSN	.0	.0	.0	.0	6.0
MPH-MSW	.0	.0	.0	.0	5.0
MPH-PhD	.0	.0	.0	.0	2.0
MS-MA	1.0	1.0	.0	.0	26.0
Total	2.0	4.0	4.0	.0	114.0

/1 Racial/ethnic breakdown excludes 7 foreign students.

TABLE 3-6
U.S. SCHOOLS OF PUBLIC HEALTH
JOINT DEGREES BY SCHOOL & CITIZENSHIP
FALL 1988

SCHOOL	JOINT DEGREE	TOTAL
ALA	MPH-JD	16.0
ALA	MPH-MBA	13.0
ALA	MPH-MPA	2.0
ALA	MPH-PhD	2.0
CAL-BERK	MS-MA	33.0
CAL-UCLA	MPH-MA	10.0
TULANE	MD-MPH	25.0
TULANE	MPH-JD	2.0
TULANE	MPH-MBA	4.0
TULANE	MPH-MSW	2.0
WASH	MD-MPH	5.0
WASH	MD-PhD	1.0
WASH	MHA-MBA	3.0
WASH	MPH-MAIS	1.0
WASH	MPH-MSW	3.0
YALE	MD-MPH	3.0
YALE	MPH-MSN	6.0
Total		131.0

JOINT DEGREE	U.S.	FOREIGN	TOTAL
MD-MPH	32.0	1.0	33.0
MD-PhD	1.0	.0	1.0
MHA-MBA	3.0	.0	3.0
MPH-JD	18.0	.0	18.0
MPH-MA	9.0	1.0	10.0
MPH-MAIS	1.0	.0	1.0
MPH-MBA	17.0	.0	17.0
MPH-MPA	2.0	.0	2.0
MPH-MSN	6.0	.0	6.0
MPH-MSW	5.0	.0	5.0
MPH-PhD	2.0	.0	2.0
MS-MA	28.0	5.0	33.0
Total	124.0	7.0	131.0

TABLE 3-7
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY AREA, SEX, CITIZENSHIP & RACE/ETHNICITY /1
FALL 1988

AREA	MALE		FEMALE		U.S.		FOREIGN	
BIOSTAT	251.0	6.4 %	301.5	4.9 %	382.0	4.6 %	170.5	10.2 %
EPID	627.5	16.0	919.0	15.0	1229.0	14.7	316.5	19.0
HSA	946.5	24.2	1715.0	28.0	2456.5	29.3	208.0	12.5
PHP&PM	170.0	4.3	554.0	9.0	626.0	7.5	95.0	5.7
H.EDUC/BS	224.0	5.7	845.5	13.8	991.5	11.8	78.0	4.7
ENV.SC	712.5	18.2	579.0	9.5	1092.5	13.0	196.0	11.8
OS&H	136.0	3.5	74.5	1.2	195.5	2.3	15.0	.9
NUTR	44.5	1.1	234.5	3.8	231.0	2.8	48.0	2.9
BIOMED	124.0	3.2	126.0	2.1	181.0	2.2	69.0	4.1
OTHER	418.0	10.7	519.0	8.5	596.0	7.1	341.0	20.5
NONSPEC	263.0	6.7	257.0	4.2	393.0	4.7	127.0	7.6
NONDEGREE	375.0	---	556.0	---	768.0	---	159.0	---
UNKNOWN	0.0	---	2.0	---	2.0	---	0.0	---
TOTAL	4292.0	100.0 %	6683.0	100.0 %	9144.0	100.0 %	1823.0	100.0 %

AREA	ASIAN		BLACK		HISPANIC			
					PUERTO RICO		MAINLAND	
BIOSTAT	38.0	8.3 %	9.0	1.7 %	5.0	1.7 %	8.0	2.9 %
EPID	80.0	17.5	74.0	14.2	27.0	9.1	37.0	13.6
HSA	106.0	23.1	184.0	35.4	51.0	17.1	70.0	25.7
PHP&PM	30.0	6.6	53.0	10.2	4.0	1.3	18.0	6.6
H.EDUC/BS	39.0	8.5	57.5	11.1	57.0	19.1	39.0	14.3
ENV.SC	52.0	11.4	43.0	8.3	78.0	26.2	19.0	7.0
OS&H	7.0	1.5	10.0	1.9	0.0	.0	7.0	2.6
NUTR	17.0	3.7	12.5	2.4	25.0	8.4	8.0	2.9
BIOMED	18.0	3.9	4.0	.8	0.0	.0	0.0	.0
OTHER	39.0	8.5	35.0	6.7	11.0	3.7	38.0	14.0
NONSPEC	32.0	7.0	38.0	7.3	40.0	13.4	28.0	10.3
NONDEGREE	37.0	---	78.0	---	51.0	---	28.0	---
UNKNOWN	0.0	---	0.0	---	0.0	---	0.0	---
TOTAL	495.0	100.0 %	598.0	100.0 %	349.0	100.0 %	300.0	100.0 %

AREA	AMERIND		WHITE	
BIOSTAT	1.0	1.1 %	316.0	4.8 %
EPID	6.0	6.6	976.0	14.8
HSA	51.0	56.0	1976.5	29.9
PHP&PM	3.0	3.3	507.0	7.7
H.EDUC/BS	20.0	22.0	750.0	11.3
ENV.SC	5.0	5.5	876.5	13.3
OS&H	1.0	1.1	170.5	2.6
NUTR	2.0	2.2	162.5	2.5
BIOMED	0.0	.0	159.0	2.4
OTHER	2.0	2.2	466.0	7.0
NONSPEC	0.0	.0	250.0	3.8
NONDEGREE	10.0	---	561.0	---
UNKNOWN	0.0	---	2.0	---
TOTAL	101.0	100.0 %	7173.0	100.0 %

/1 Excludes students of unknown sex, citizenship, and race/ethnicity.

TABLE 3-8
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY SCHOOL AND AREA
FALL 1988

SCHOOL	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC		OS&H	
ALA		.0 %	64.0	22.4 %	10.0	3.5 %	22.0	7.7 %	19.0	6.6 %	20.0	7.0 %	36.0	12.6 %
BOSTON		.0	83.0	27.7	146.0	48.7		.0	31.0	10.3	40.0	13.3		.0
CAL-BERK	30.0	6.1	49.0	9.9	120.0	24.3	39.0	7.9	83.0	16.8	53.0	10.8		.0
CAL-UCLA	61.0	10.1	107.0	17.7	90.0	14.9		.0	89.0	14.7	99.0	16.3		.0
COLUMBIA	19.0	4.9	60.0	15.4	99.0	25.4	5.0	1.3	19.0	4.9	50.0	12.9		.0
HARVARD	51.0	9.6	75.0	14.2	145.0	27.4	25.0	4.7	15.0	2.8	28.0	5.3	27.0	5.1
HAWAII	7.0	3.0	25.0	10.6	48.0	20.3	34.0	14.4	20.0	8.5	35.0	14.8		.0
ILL		.0	49.0	21.9	66.0	29.5	75.0	33.5		.0	34.0	15.2		.0
JHU	22.0	3.0	134.0	18.0	196.0	26.3	61.0	8.2		.0	100.0	13.4		.0
L.LINDA	4.0	.9	17.0	4.0	49.0	11.5	26.0	6.1	180.0	42.2	3.0	.7		.0
MASS	11.0	7.1	40.0	26.0	31.0	20.1		.0	37.0	24.0	28.0	18.2		.0
MICH	50.5	7.3	89.5	12.9	230.5	33.3	24.0	3.5	72.5	10.5	71.5	10.3	56.5	8.2
MINN	20.0	5.5	69.0	19.0	104.0	28.7	53.0	14.6	38.0	10.5	62.0	17.1		.0
No.CAR	92.0	11.9	104.0	13.5	201.0	26.0	89.0	11.5	68.0	8.8	137.0	17.7		.0
OKLA	22.0	5.3	42.0	10.1	215.0	51.9		.0	46.0	11.1	89.0	21.5		.0
PITT	30.0	5.3	122.0	21.7	122.0	21.7	123.0	21.8		.0	92.0	16.3		.0
PR	5.0	1.3	30.0	8.1	51.0	13.7	5.0	1.3	57.0	15.4	78.0	21.0		.0
S.DIEGO		.0	38.0	14.0	72.0	26.5	26.0	9.6	109.0	40.1	27.0	9.9		.0
So.CAR	10.0	3.3	50.0	16.6	68.0	22.6		.0	106.0	35.2	52.0	17.3		.0
So.FLA		.0	21.0	9.5	90.0	40.9	30.0	13.6	40.0	18.2	19.0	8.6	20.0	9.1
TEXAS	26.0	5.0	36.0	6.9	70.0	13.4	68.0	13.0	15.0	2.9	63.0	12.0	43.0	8.2
TULANE	16.0	3.4	56.0	11.9	121.0	25.7	20.0	4.3	25.0	5.3	54.0	11.5		.0
WASH	70.0	17.3	91.0	22.5	164.0	40.6		.0		.0	37.0	9.2	28.0	6.9
YALE	7.0	2.4	95.0	32.8	156.0	53.8		.0		.0	20.0	6.9		.0
TOTAL	553.5	5.5 %	1546.5	15.4 %	2664.5	26.5 %	725.0	7.2 %	1069.5	10.6 %	1291.5	12.9 %	210.5	2.1 %

SCHOOL	NUTR		BIOMED		OTHER		NONSPEC		NONDEGREE	UNKNOWN	TOTAL
ALA	2.0	.7 %		.0 %	29.0	10.1 %	84.0	29.4 %	50.0	2.0	338.0
BOSTON		.0		.0		.0		.0			300.0
CAL-BERK	32.0	6.5	57.0	11.6	21.0	4.3	9.0	1.8			493.0
CAL-UCLA	59.0	9.7		.0	101.0	16.7		.0	11.0		617.0
COLUMBIA		.0		.0	54.0	13.9	83.0	21.3	70.0		459.0
HARVARD	9.0	1.7	37.0	7.0	37.0	7.0	81.0	15.3	15.0		545.0
HAWAII	12.0	5.1		.0	28.0	11.9	27.0	11.4	12.0		248.0
ILL		.0		.0		.0		.0	126.0		350.0
JHU		.0	77.0	10.3	155.0	20.8		.0	258.0		1003.0
L.LINDA	29.0	6.8		.0	119.0	27.9		.0	87.0		514.0
MASS	7.0	4.5		.0		.0		.0			154.0
MICH	19.0	2.7		.0	79.0	11.4		.0	36.0		729.0
MINN	17.0	4.7		.0		.0		.0			363.0
No.CAR	50.0	6.5	32.0	4.1		.0		.0			773.0
OKLA		.0		.0		.0		.0			414.0
PITT		.0	33.0	5.9	41.0	7.3		.0	54.0		617.0
PR	25.0	6.7		.0	11.0	3.0	109.0	29.4	51.0		422.0
S.DIEGO		.0		.0		.0		.0			272.0
So.CAR		.0		.0		.0	15.0	5.0	7.0		308.0
So.FLA		.0		.0		.0		.0	95.0		315.0
TEXAS		.0		.0	137.0	26.1	66.0	12.6	12.0		536.0
TULANE	19.0	4.0		.0	125.0	26.6	34.0	7.2	10.0		480.0
WASH		.0	14.0	3.5		.0		.0	39.0		443.0
YALE		.0		.0		.0	12.0	4.1			290.0
TOTAL	280.0	2.8 %	250.0	2.5 %	937.0	9.3 %	520.0	5.2 %	933.0	2.0	10983.0

TABLE 3-9
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY AREA AND DEGREE OBJECTIVE /1
FALL 1988

DEGREE OBJECTIVE	BIOSTAT	EPID	HSA	PHP&PM	H.EDUC/BS	ENV.SC
MPH	79.5	782.5	1490.5	508.0	751.5	444.5
MS	188.0	132.0	224.0	20.0	52.0	268.0
MSPH	16.0	46.0	73.0	2.0	23.0	119.0
MHA/MHSA			451.0			
OTHER MAST.	5.0	19.0	21.0	11.0	61.0	98.0
DrPH	26.0	97.0	152.0	114.0	95.0	42.0
ScD	32.0	58.0	91.0	26.0	8.0	27.0
PhD	192.0	407.0	138.0	15.0	70.0	251.0
OTHER DOCT.				26.0	9.0	40.0
JOINT DEG.	15.0	5.0	24.0	3.0		2.0
TOTAL	553.5	1546.5	2664.5	725.0	1069.5	1291.5
% MASTERS /2	54.8	63.7	85.7	75.0	83.0	72.1
% DOCT. /2	45.2	36.3	14.3	25.0	17.0	27.9

DEGREE OBJECTIVE	OS&H	NUTR	BIOMED	OTHER	NONSPEC	UNKNOWN
MPH	97.5	168.0	37.0	587.0	435.0	
MS	49.0	41.0	20.0	90.0		
MSPH	32.0	1.0	11.0	21.0		
MHA/MHSA						
OTHER MAST.	2.0	25.0	22.0	25.0		
DrPH	14.0	29.0	23.0	98.0	35.0	
ScD	2.0	7.0	37.0	32.0		
PhD	14.0	9.0	97.0	55.0		
OTHER DOCT.						
JOINT DEG.			3.0	29.0	50.0	
UNKNOWN						2.0
TOTAL	210.5	280.0	250.0	937.0	520.0	2.0
% MASTERS /2	85.7	83.9	37.2	80.3	93.3	100.0
% DOCT. /2	14.3	16.1	62.8	19.7	6.7	---

/1 Excludes nondegree students.
/2 Includes joint degrees classified according to school of public health degree.

TABLE 3-10
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENT STATUS BY AREA AND DEGREE OBJECTIVE
FALL 1988

AREA	F-T		P-T		OTHER		TOTAL
MPH	2830.0	52.5 %	1799.0	33.4 %	760.0	14.1 %	5389.0
MS	698.0	64.2	364.0	33.5	26.0	2.4	1088.0
MSPH	231.0	67.2	113.0	32.8	0.0	.0	344.0
MHA/MHSA	305.0	67.6	123.0	27.3	23.0	5.1	451.0
OTHER.MAST	183.0	63.3	106.0	36.7	0.0	.0	289.0
DrPH	445.0	61.2	261.0	35.9	21.0	2.9	727.0
ScD	237.0	74.1	83.0	25.9	0.0	.0	320.0
PhD	843.0	67.4	408.0	32.6	0.0	.0	1251.0
OTHER.DOC	66.0	86.8	10.0	13.2	0.0	.0	76.0
JOINT.DEG	97.0	74.0	34.0	26.0	0.0	.0	131.0
NONDEGREE	214.0	22.9	636.0	68.2	83.0	8.9	933.0
UNKNOWN	0.0	.0	2.0	100.0	0.0	.0	2.0
TOTAL	6149.0	55.9 %	3939.0	35.8 %	913.0	8.3 %	11001.0

AREA	F-T		P-T		OTHER		TOTAL
BIOSTAT	382.5	69.0 %	170.0	30.7 %	2.0	.4 %	554.5
EPID	964.5	62.2	563.0	36.3	22.0	1.4	1549.5
HSA—	1435.5	53.8	919.0	34.4	314.0	11.8	2668.5
PHP&PM	367.0	50.6	328.0	45.2	30.0	4.1	725.0
H.EDUC/BS	617.5	57.6	360.0	33.6	95.0	8.9	1072.5
ENV.SC	816.0	63.1	438.5	33.9	39.0	3.0	1293.5
OS&H	127.5	60.6	67.0	31.8	16.0	7.6	210.5
NUTR	209.5	74.6	71.5	25.4	0.0	.0	281.0
BIOMED	210.0	84.0	39.0	15.6	1.0	.4	250.0
OTHER	623.0	66.2	212.0	22.5	106.0	11.3	941.0
NONSPEC	182.0	35.0	133.0	25.6	205.0	39.4	520.0
NONDEGREE	214.0	22.9	636.0	68.2	83.0	8.9	933.0
UNKNOWN	0.0	.0	2.0	100.0	0.0	.0	2.0
TOTAL	6149	55.9 %	3939	35.8 %	913	8.3 %	11001

TABLE 3-11
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENT STATUS BY SCHOOL
FALL 1988

SCHOOL	F-T		P-T		OTHER		TOTAL
ALA	102	30.2 %	203	60.1 %	33	9.8 %	338
BOSTON	74	24.7	226	75.3	0	.0	300
CAL-BERK	493	100.0	0	.0	0	.0	493
CAL-UCLA	598	96.9	19	3.1	0	.0	617
COLUMBIA	203	44.2	256	55.8	0	.0	459
HARVARD	425	78.0	120	22.0	0	.0	545
HAWAII	161	64.9	87	35.1	0	.0	248
ILL	97	27.7	253	72.3	0	.0	350
JHU	721	71.9	212	21.1	70	7.0	1003
L.LINDA	131	25.5	124	24.1	259	50.4	514
MASS	79	51.3	75	48.7	0	.0	154
MICH	458	62.8	199	27.3	72	9.9	729
MINN	241	66.4	122	33.6	0	.0	363
No.CAR	477	61.7	179	23.2	117	15.1	773
OKLA	102	24.6	263	63.5	49	11.8	414
PITT	229	37.1	388	62.9	0	.0	617
PR	122	28.9	146	34.6	154	36.5	422
S.DIEGO	146	53.7	126	46.3	0	.0	272
So.CAR	140	45.5	168	54.5	0	.0	308
So.FLA	69	21.9	246	78.1	0	.0	315
TEXAS	190	35.4	280	52.2	66	12.3	536
TULANE	329	68.5	125	26.0	26	5.4	480
WASH	299	67.5	77	17.4	67	15.1	443
YALE	245	84.5	45	15.5	0	.0	290
TOTAL	6131	55.8 %	3939	35.9 %	913	8.3 %	10983

B. Student Trends 1974-75 through 1988-89

In 1958 there were 11 schools of public health in the U.S. with a total enrollment of less than 1,200 students. The typical student of that time was a White male, about 33 years old, with a medical background, who was enrolled full-time in a one-year master's degree program and was receiving financial assistance from a government agency. Over the next twenty years, the student body in the U.S. schools of public health changed significantly. Total enrollment grew at a rapid rate, and there was an influx of younger students, including a large number of women, with little prior health experience and only a prior bachelor's degree. Programmatic changes in the schools which reflected the changing student population included the lengthening of the master's degree programs from one to two years and the expansion of doctoral degree programs.

In the early 1980s, the rapid growth in enrollments stopped, and for several years total enrollment remained at the same level -- about 9,000 students. Since 1985, however, total enrollment in the schools has been on the rise, and as noted below, the student body appears to be evolving once again toward older, more experienced students.

In the Fall of 1988, there were 24 schools of public health with a total enrollment of about 11,000 students. The proportion of women continued to increase, and 61% of the total students (65% for U.S. citizens) in Fall 1988 were female. In 1958, less than 29% of the students were women.

Foreign students, who represented nearly one-quarter of the student population in the late 1950s, have been enrolling in increasing numbers in recent years. While the total number of foreign students has increased steadily since 1974 (when the ASPH database began), the large increase in U.S. enrollments tended to dwarf the foreign student gains. In 1977, foreign students represented less than 10% of the total student population. In the Fall of 1981, however, the number of foreign students nearly doubled -- from 730 reported in Fall 1980 to 1,299 -- and the number of foreign students has been increasing at a rapid rate throughout the 1980s. In the Fall of 1988, there were 1,823 foreign students enrolled in the 24 schools, and they constituted over 16% of the total student body. The data on new enrollments, which is frequently used as an indication of future trends, reveals that foreign students constituted almost 18% of the new students in the Fall of 1988.

Data on minority students has been collected by ASPH since 1974; there is no information on race in the 1960s data. The number and proportion of minority students rose from 1974 until 1980 when there were 1,102 minority students (1,059 without Puerto Rico), and the minority students represented 18.4% (17.8% without Puerto Rico) of U.S. students. The overall number of minority students has been falling slightly, although the increase in the student enrollment at Puerto Rico tends to confuse the data somewhat. Since 1985,

however, there has been some increase in the number and proportion of minority students. In the Fall of 1988, minority students constituted over 20% (17% excluding Puerto Rico) of total U.S. students, and among new enrollments minority students represented 23% (18% excluding Puerto Rico) of the total.

With regard to degree objective, there has been very little change since 1974. About 70% of the students pursue master's degrees and about 20% pursue doctoral degrees, with the remaining students enrolled as nondegree students. Nondegree students represented almost 9% of the total students in the Fall of 1988.

As described in the "notes" section at the beginning of this report (page iv), there is some difficulty with the data on areas of specialization, thus making trends analysis difficult. It would appear that the proportion of students in the various areas has remained quite stable over the years. The great majority of students are in health administration. Biostatistics/epidemiology and environmental/occupational health are also areas that have a large number of students.

The most significant change that has occurred in recent years is the increasing proportion of part-time students plus the growth (and increasing number of students) in non-traditional degree programs offered by the schools of public health. Part-time students constituted over one-third (almost 36%) of the total students in Fall 1988. At the same time, the number of non-traditional degree programs offered by the schools has increased, and the schools reported over 900 students enrolled in these programs during the Fall of 1988.

The student population in the U.S. schools of public health appears to be evolving once again toward older, more experienced students. Data from a survey of 1986 graduates indicated a median age of 31-32 years, and revealed that 75% of the graduates had some prior health-related experience, with a median of five years of experience for this group. One aspect of this trend is the growing number of students who are currently employed in the health field.

There is every indication that the number of part-time students and students who need "non-traditional" educational programs will continue to grow in the future, and the schools are developing new programs and making changes in existing programs to reflect this trend. Three schools of public health now schedule the majority of their courses in the late afternoon or evening, and a large number of schools have developed or are developing non-traditional degree programs for working students.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS
(Fall Semester)

Students by Sex

YEAR	MALES		FEMALES		UNKNOWN	TOTAL
1958 /1	886	71.3 %	356	28.7 %	---	1242
1974 /2	2673	53.7	2307	46.3	841	5821
1975	3163	52.5	2857	47.5	441	6461
1976	3181	51.5	3001	48.5	433	6615
1977	3233	50.3	3193	49.7	415	6841
1978	3367	47.6	3704	52.4	651	7722
1979	3397	46.2	3949	53.8	869	8215
1980	3023	44.8	3728	55.2	1735	8486
1981	3865	44.6	4800	55.4	382	9047
1982	3794	42.7	5101	57.3	1	8896
1983	3690	41.7	5152	58.3	95	8937
1984	3627	40.5	5329	59.5	1	8957
1985	3769	39.7	5725	60.3	---	9494
1986	4071	40.3	6029	59.7	4	10104
1987	4095	40.1	6125	59.9	541	10761
1988	4292	39.1	6683	60.9	8	10983

Students by Citizenship

YEAR	U.S.		FOREIGN		UNKNOWN	TOTAL
1958 /1	950	76.5 %	292	23.5 %	---	1242
1974 /2	5072	89.4	600	10.6	149	5821
1975	5415	90.3	582	9.7	464	6461
1976	5597	90.3	600	9.7	418	6615
1977	5804	90.2	634	9.8	403	6841
1978	6340	90.0	707	10.0	675	7722
1979	6532	89.3	782	10.7	901	8215
1980	6047	89.2	730	10.8	1709	8486
1981	7366	85.0	1299	15.0	382	9047
1982	7615	86.5	1190	13.5	91	8896
1983	7617	86.3	1212	13.7	108	8937
1984	7641	86.6	1180	13.4	136	8957
1985	7942	84.9	1410	15.1	142	9494
1986	8558	84.7	1545	15.3	1	10104
1987	8562	83.7	1664	16.3	535	10761
1988	9144	83.4	1823	16.6	16	10983

/1 Data for 1958 is from Dr. James Troupin and includes two Canadian schools.

/2 Puerto Rico did not report in 1974 and only reported total enrollment in 1978 and 1979.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS (Continued)

U.S. Students by Race/Ethnicity

YEAR	ASIAN		BLACK		HISPANIC				AMERIND		WHITE		UNKNOWN	TOTAL
					PUERTO RICO		MAINLAND							
1974	156	3.5 %	351	7.8 %	N/A	N/A	76	1.7 %	49	1.1 %	3883	86.0 %	557	5072
1975	218	4.1	348	6.6	197	3.7 %	112	2.1	59	1.1	4334	82.3	147	5415
1976	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5597	5597
1977	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5804	5804
1978	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6340	6340
1979	408	6.3	415	6.4	N/A	N/A	173	2.7	68	1.0	5421	83.6	47	6532
1980	393	6.6	379	6.3	43	.7	199	3.3	88	1.5	4892	81.6	53	6047
1981	335	5.2	376	5.8	130	2.0	141	2.2	82	1.3	5440	83.6	862	7366
1982	368	5.3	403	5.8	183	2.6	176	2.5	70	1.0	5805	82.9	610	7615
1983	313	4.5	357	5.2	217	3.1	171	2.5	59	.9	5794	83.8	706	7617
1984	302	4.3	368	5.2	223	3.2	169	2.4	54	.8	5900	84.1	625	7641
1985	304	4.2	433	6.0	277	3.8	175	2.4	63	.9	5992	82.7	698	7942
1986	378	4.7	484	6.1	289	3.6	235	2.9	68	.9	6539	81.8	565	8558
1987	457	5.4	523	6.2	282	3.3	287	3.4	88	1.0	6858	80.7	67	8562
1988	495	5.5	598	6.6	349	3.9	300	3.3	101	1.1	7173	79.6	128	9144

Students by Status

YEAR	FULL-TIME		PART-TIME		OTHER		UNKNOWN	TOTAL
1974	3331	73.7 %	1188	26.3 %	N/A	N/A	1302	5821
1975	4562	76.4	1407	23.6	N/A	N/A	492	6461
1976	4760	76.9	1427	23.1	N/A	N/A	428	6615
1977	4907	78.4	1351	21.6	N/A	N/A	583	6841
1978	5330	79.5	1372	20.5	N/A	N/A	1020	7722
1979	5895	80.9	1388	19.1	N/A	N/A	932	8215
1980	4782	77.8	1365	22.2	N/A	N/A	2339	8486
1981	5070	69.2	2254	30.8	N/A	N/A	1723	9047
1982	5948	66.9	2948	33.1	N/A	N/A	0	8896
1983	5574	65.8	2468	29.1	433	5.1 %	462	8937
1984	5784	64.6	2823	31.5	350	3.9	0	8957
1985	5838	61.5	3016	31.8	640	6.7	0	9494
1986	5937	58.8	3553	35.2	614	6.1	0	10104
1987	6098	56.7	3849	35.8	814	7.6	0	10761
1988	6131	55.8	3939	35.9	913	8.3	0	10983

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS (Continued)

Students by Degree Objective

YEAR	BACHELOR		MPH		MS		MSPH		MHA/MHSA		OTHER MAST.		DrPH	
1974	130	2.6%	2437	48.7%	N/A	N/A	294	5.9%	N/A	N/A	853	17.1%	318	6.4%
1975	212	3.5	2838	47.5	N/A	N/A	618	10.3	N/A	N/A	848	14.2	382	6.4
1976	111	1.8	2986	48.2	N/A	N/A	653	10.5	N/A	N/A	862	13.9	394	6.4
1977	55	.9	3152	49.3	609	9.5%	373	5.8	292	4.6%	413	6.5	375	5.9
1978	56	.8	3479	49.7	633	9.0	519	7.4	255	3.6	404	5.8	431	6.2
1979 /1	126	1.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5385	73.5	N/A	N/A
1980	82	1.2	3176	47.1	473	7.0	534	7.9	394	5.8	357	5.3	442	6.6
1981 /1	42	.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6378	73.3	N/A	N/A
1982	N/A	N/A	4293	48.3	758	8.5	594	6.7	N/A	N/A	609	6.9	549	6.2
1983	N/A	N/A	4153	46.5	755	8.4	550	6.2	389	4.4	365	4.1	567	6.3
1984	N/A	N/A	4300	48.0	755	8.4	411	4.6	404	4.5	339	3.8	594	6.6
1985	N/A	N/A	4461	47.0	911	9.6	311	3.3	422	4.4	344	3.6	612	6.4
1986	N/A	N/A	4874	48.2	995	9.8	321	3.2	438	4.3	281	2.8	684	6.8
1987	N/A	N/A	5201	48.3	1028	9.6	337	3.1	440	4.1	290	2.7	667	6.2
1988	N/A	N/A	5381	49.0	1084	9.9	344	3.1	451	4.1	289	2.6	725	6.6

YEAR	ScD		PhD		OTHER DOCT.		JOINT DEGREE /2		NONDEGREE		UNKNOWN	TOTAL
1974	N/A	N/A	447	8.9%	184	3.7%	N/A	N/A	338	6.8%	820	5821
1975	N/A	N/A	578	9.7	219	3.7	N/A	N/A	279	4.7	487	6461
1976	N/A	N/A	623	10.1	234	3.8	75	1.2%	253	4.1	424	6615
1977	209	3.3%	611	9.5	70	1.1	25	.4	214	3.3	443	6841
1978	229	3.3	669	9.6	69	1.0	23	.3	231	3.3	724	7722
1979 /1	N/A	N/A	N/A	N/A	1552	21.2	N/A	N/A	261	3.6	891	8215
1980	170	2.5	771	11.4	49	.7	27	.4	265	3.9	1746	8486
1981 /1	N/A	N/A	N/A	N/A	1803	20.7	N/A	N/A	479	5.5	345	9047
1982	269	3.0	978	11.0	19	.2	69	.8	752	8.5	6	8896
1983	257	2.9	1002	11.2	50	.6	154	1.7	695	7.8	0	8937
1984	264	2.9	994	11.1	48	.5	165	1.8	683	7.6	0	8957
1985	261	2.7	1057	11.1	80	.8	121	1.3	914	9.6	0	9494
1986	277	2.7	1105	10.9	87	.9	190	1.9	852	8.4	0	10104
1987	318	3.0	1242	11.5	91	.8	203	1.9	940	8.7	4	10761
1988	320	2.9	1248	11.4	75	.7	131	1.2	933	8.5	2	10983

/1 No breakdown of master's and doctoral degrees.
/2 Until 1983 data is only for MD-MPH joint degrees.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS (Continued)

Students by Area of Specialization

YEAR	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC		OS&H	
1974	339.0	7.3%	422.0	9.1%	1380.0	29.8%	416.0	9.0%	181.0	3.9%	653.0	14.1%	114.0	2.5%
1975	478.0	8.3	873.0	15.1	1894.0	32.8	557.0	9.6	341.0	5.9	795.0	13.8	157.0	2.7
1976	462.0	7.5	968.0	15.7	1788.0	29.0	573.0	9.3	449.0	7.3	762.0	12.3	154.0	2.5
1977	440.0	6.9	759.0	11.9	1740.0	27.2	682.0	10.7	421.0	6.6	764.0	12.0	228.0	3.6
1978	491.0	7.1	880.0	12.8	1809.0	26.3	744.0	10.8	489.0	7.1	821.0	11.9	269.0	3.9
1979	495.0	6.8	940.0	13.0	1923.0	26.6	651.0	9.0	495.0	6.8	900.0	12.4	310.0	4.3
1980	472.0	7.1	882.0	13.2	1656.0	24.9	591.0	8.9	440.0	6.6	584.0	8.8	437.0	6.6
1981	529.0	6.3	1050.0	12.5	1731.0	20.6	921.0	10.9	556.0	6.6	956.0	11.4	398.0	4.7
1982	559.0	6.4	1070.0	12.2	2107.0	24.0	644.5	7.3	590.5	6.7	1121.5	12.8	313.5	3.6
1983	489.5	6.0	1171.5	14.3	2187.5	26.6	593.0	7.2	730.5	8.9	1233.0	15.0	136.5	1.7
1984	468.5	5.7	1130.5	13.7	2356.0	28.5	596.5	7.2	836.0	10.1	1109.5	13.4	218.0	2.6
1985	474.5	5.5	1236.5	14.4	2431.0	28.4	595.0	6.9	856.0	10.0	1116.0	13.0	239.5	2.8
1986	509.0	5.5	1406.5	15.2	2500.0	27.0	710.0	7.7	999.5	10.8	1146.5	12.4	211.5	2.3
1987	550.0	5.6	1508.5	15.4	2777.5	28.3	598.0	6.1	978.5	10.0	1247.5	12.7	224.0	2.3
1988	553.5	5.5	1546.5	15.4	2664.5	26.5	725.0	7.2	1069.5	10.6	1291.5	12.9	210.5	2.1

YEAR	NUTR		BIOMED		OTHER		NONSPEC		NONDEGREE	UNKNOWN	TOTAL
1974	201.0	4.3%	N/A	N/A	927.0	20.0%	N/A	N/A	N/A	1188	5821
1975	245.0	4.2	N/A	N/A	440.0	7.6	N/A	N/A	N/A	681	6461
1976	328.0	5.3	N/A	N/A	690.0	11.2	N/A	N/A	N/A	441	6615
1977	388.0	6.1	273.0	4.3%	693.0	10.8	N/A	N/A	N/A	453	6841
1978	386.0	5.6	256.0	3.7	731.0	10.6	N/A	N/A	N/A	846	7722
1979	377.0	5.2	316.0	4.4	827.0	11.4	N/A	N/A	N/A	981	8215
1980	352.0	5.3	229.0	3.4	1018.0	15.3	N/A	N/A	N/A	1825	8486
1981	333.0	4.0	373.0	4.4	897.0	10.7	670.0	8.0%	N/A	632	9047
1982	373.0	4.3	348.0	4.0	859.0	9.8	783.0	8.9	N/A	127	8896
1983	276.0	3.4	258.0	3.1	781.5	9.5	362.0	4.4	695	23	8937
1984	300.5	3.6	273.0	3.3	684.5	8.3	289.0	3.5	683	12	8957
1985	282.5	3.3	275.0	3.2	720.0	8.4	339.0	4.0	914	15	9494
1986	292.5	3.2	247.0	2.7	779.5	8.4	446.0	4.8	852	4	10104
1987	283.5	2.9	267.0	2.7	872.5	8.9	497.0	5.1	940	17	10761
1988	280.0	2.8	250.0	2.5	937.0	9.3	520.0	5.2	933	2	10983

Beginning in 1982 students with dual specializations counted as .5 in each area.
Until 1983 nondegree students were recorded under their area of study or nonspecialized.

TOTAL ENROLLMENTS
U.S. SCHOOLS OF PUBLIC HEALTH
(Fall Semester)

SCHOOL	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 (Prelim)
ALA	---	---	---	---	90	129	147	165	126	135	138	248	277	322	338	273
BOSTON	---	---	---	---	---	---	---	280	270	282	254	335	282	313	300	410
CAL-BERK*	371	396	505	430	415	466	469	497	435	484	465	482	474	482	493	526
CAL-UCLA*	462	493	521	484	528	584	607	580	530	589	543	569	617	651	617	595
COLUMBIA*	200	291	327	343	399	413	487	431	538	480	494	506	501	529	459	511
HARVARD*	341	381	361	414	473	455	435	403	421	378	426	421	469	469	545	521
HAWAII*	149	200	268	316	336	350	352	338	312	260	215	237	264	249	248	259
ILL*	103	113	139	139	154	144	163	216	287	263	296	330	286	317	350	214
JHU*	493	565	551	633	653	735	891	834	856	851	806	855	866	1001	1003	1085
L.LINDA	197	241	269	223	323	258	271	761 /1	722	539	392	466	504	459	514	265
MASS*	87	105	86	119	118	167	138	139	135	126	152	138	171	166	154	188
MICH*	762	775	683	610	704	657	742	742	645	643	634	620	651	691	729	755
MINN*	379	477	460	455	508	509	502	448	374	369	393	405	318	370	363	397
No.CAR*	533	501	520	595	660	671	670	600	637	685	739	728	765	819	773	867
OKLA*	184	178	172	186	193	248	232	225	188	237	246	279	322	368	414	412
PITT*	454	408	408	459	465	483	454	500	454	496	522	552	581	607	617	592
PR	N/A	221	96	136	136	136	144	140	203	224	238	277	354	404	422	405
S.DIEGO	---	---	---	---	---	---	---	---	100	130	180	182	207	241	272	279
So.CAR	---	---	---	76	117	154	154	175	192	214	274	308	309	304	308	376
So.FLA	---	---	---	---	---	---	---	---	---	---	---	---	275	293	315	382
TEXAS*	325	372	365	414	555	601	603	576	504	494	503	468	490	532	536	617
TULANE*	301	306	302	338	366	405	344	389	382	427	415	432	417	460	480	401
WASH*	264	223	285	242	290	380	404	321	294	359	335	382	426	428	443	504
YALE*	216	215	297	229	239	270	277	287	291	272	297	274	278	286	290	284
TOTAL	5821 /2	6461	6615	6841	7722	8215	8486	9047	8896	8937	8957	9494	10104	10761	10983	11118
Trends for 17 schools *	5624	5999 (+7%)	6250 (+4%)	6406 (+3%)	7056 (+10%)	7538 (+7%)	7770 (+3%)	7526 (-3%)	7283 (-3%)	7413 (+2%)	7481 (+1%)	7678 (+3%)	7896 (+3%)	8425 (+7%)	8514 (+1%)	8728 (+3%)

/1 Off-campus students included for first time.
/2 Puerto Rico not included.

IV. GRADUATES

A. 1988-89 Graduates

There were 3,500 graduates from the 24 schools in 1988-89, about the same level as in 1987-88 (3,447). Of this total, 59% were female, 19% were foreign, and almost 20% of the U.S. graduates were members of minority groups.

Over 67% of the total degrees awarded were MPH degrees, and almost 10% were doctorates. A similar proportion of male and female graduates received doctorates, as did U.S. and foreign graduates (see Table 4-3). The proportion of minority graduates who received doctorates (excluding Puerto Rico) ranged from 2-6% compared to almost 11% for white graduates.

The areas of specialization with the most number of graduates were health and human services administration (28%) and epidemiology (16%). Graduates in the "other" category were concentrated in the international health and population/family planning areas, while graduates in the "public health practice and programming management" category were concentrated in maternal and child health. The area with the highest proportion of doctorates (see Table 4-5) was biomedical sciences (44%), followed by biostatistics (21%) and epidemiology (17%).

A total of 769 graduates had prior MD degrees (see Table 4-9). Those areas of specialization in which the highest proportion of graduates had prior MD degrees were "nonspecialized" or general public health studies (46%), epidemiology (38%), public health practice and program management (32%), and occupational safety and health (32%).

With regard to highest previous degree, over half (54%) of the graduates had a prior bachelor's degree (see Table 4-10). This figure is higher if nursing degrees, most of which are bachelor's degrees, are included. There were differences in highest previous degrees based on sex and citizenship. Almost 60% of the female graduates had a bachelor's degree as their highest previous degree, compared to 46% of the male graduates. Of the foreign graduates, less than one-third (30%) had only a prior bachelor's degree, compared to 60% of the U.S. graduates. About 37% of the male graduates had prior MD degrees compared to 12% of the female graduates and over half (55%) of the foreign graduates had prior MD degrees compared to 15% for U.S. graduates.

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF GRADUATES
1988-1989

SEX & CITIZENSHIP

MALES	1426	40.7 %	U.S.	2824	80.7 %
FEMALES	2074	59.3	FOREIGN	676	19.3
UNKNOWN	---	---	UNKNOWN	0	---
TOTAL	3500	100.0 %	TOTAL	3500	100.0 %
U.S. MALES	1010	35.8 %	FOR. MALES	416	61.5 %
U.S. FEMALES	1814	64.2	FOR. FEMALES	260	38.5
UNKNOWN	---	---	UNKNOWN	---	---
TOTAL	2824	100.0 %	TOTAL	676	100.0 %

RACE/ETHNICITY

(U.S. CITIZENS)	MALES	FEMALES	UNKNOWN	TOTAL	
ASIAN	61	103	0	164	5.8 %
BLACK	58	149	0	207	7.4
HISPANIC					
PUERTO RICO	16	43	0	59	2.1
MAINLAND	37	53	0	90	3.2
AMERIND	19	12	0	31	1.1
(TOTAL MIN.)	(191)	(360)	(0)	(551)	(19.6)
WHITE	814	1442	0	2256	80.4
UNKNOWN	5	12	0	17	---
TOTAL	1010	1814	0	2824	100.0 %

AREA OF SPECIALIZATION

BIOSTAT	150.5	4.3 %	NUTR	108.5	3.1 %
EPID	554.5	15.8	BIOMED	69.0	2.0
HSA	993.5	28.4	OTHER	353.5	10.1
PHP&PM	249.5	7.1	NONSPEC	296.0	8.5
H.EDUC/BS	299.5	8.6			
ENV.SC	341.0	9.7	TOTAL	3500.0	100.0 %
OS&H	84.5	2.4			

DEGREE AWARDED

MPH	2359	67.4 %	PhD	173	4.9 %
MS	365	10.4	OTHER DOCT.	19	.5
MSPH	122	3.5	JOINT DEGREE	53	1.5
MHA/MHSA	181	5.2			
OTHER MASTERS	85	2.4	TOTAL	3500	100 %
DrPH	102	2.9	TOTAL MAST.	3165	90.4 %
ScD	41	1.2	TOTAL DOCT.	335	9.6 %

HIGHEST PREVIOUS DEGREE

BACHELORS	1868	54.0 %	PhD	33	1.0 %
NURSING DEG.	302	8.7	OTHER DOCT.	15	.4
MASTERS	379	10.9	OTHER DEGREE	40	1.2
MD/DO	769	22.2	UNKNOWN	38	---
DDS	34	1.0			
DVM	22	.6	TOTAL	3500	100.0 %

TABLE 4-1
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL, SEX & CITIZENSHIP
1988-89

SCHOOL	MALE	FEMALE	UNKNOWN	TOTAL
ALA	57.0	54.0	.0	111.0
BOSTON	43.0	77.0	.0	120.0
CAL-BERK	65.0	143.0	.0	208.0
CAL-UCLA	78.0	130.0	.0	208.0
COLUMBIA	56.0	118.0	.0	174.0
HARVARD	143.0	129.0	.0	272.0
HAWAII	33.0	52.0	.0	85.0
ILL	28.0	46.0	.0	74.0
JHU	123.0	161.0	.0	284.0
L.LINDA	38.0	68.0	.0	106.0
MASS	13.0	30.0	.0	43.0
MICH	99.0	147.0	.0	246.0
MINN	53.0	97.0	.0	150.0
NO.CAR	120.0	190.0	.0	310.0
OKLA	50.0	53.0	.0	103.0
PITT	61.0	75.0	.0	136.0
PR	69.0	62.0	.0	131.0
S.DIEGO	22.0	51.0	.0	73.0
SO.CAR	31.0	46.0	.0	77.0
SO.FLA	17.0	53.0	.0	70.0
TEXAS	35.0	70.0	.0	105.0
TULANE	108.0	94.0	.0	202.0
WASH	47.0	62.0	.0	109.0
YALE	37.0	66.0	.0	103.0
Total	1426.0	2074.0	.0	3500.0

SCHOOL	U.S.	FOREIGN	UNKNOWN	TOTAL
ALA	84.0	27.0	.0	111.0
BOSTON	104.0	16.0	.0	120.0
CAL-BERK	192.0	16.0	.0	208.0
CAL-UCLA	148.0	60.0	.0	208.0
COLUMBIA	167.0	7.0	.0	174.0
HARVARD	190.0	82.0	.0	272.0
HAWAII	59.0	26.0	.0	85.0
ILL	59.0	15.0	.0	74.0
JHU	202.0	82.0	.0	284.0
L.LINDA	89.0	17.0	.0	106.0
MASS	36.0	7.0	.0	43.0
MICH	208.0	38.0	.0	246.0
MINN	135.0	15.0	.0	150.0
NO.CAR	276.0	34.0	.0	310.0
OKLA	88.0	15.0	.0	103.0
PITT	125.0	11.0	.0	136.0
PR	59.0	72.0	.0	131.0
S.DIEGO	64.0	9.0	.0	73.0
SO.CAR	66.0	11.0	.0	77.0
SO.FLA	69.0	1.0	.0	70.0
TEXAS	94.0	11.0	.0	105.0
TULANE	125.0	77.0	.0	202.0
WASH	99.0	10.0	.0	109.0
YALE	86.0	17.0	.0	103.0
Total	2824.0	676.0	.0	3500.0

TABLE 4-2
U.S. GRADUATES BY SCHOOL & RACE/ETHNICITY
1988-89

SCHOOL	ASIAN	BLACK	HISPANIC	AMERIND	TOTAL MINORITY
ALA	4.0	11.0	2.0	.0	17.0
BOSTON	7.0	2.0	3.0	.0	12.0
CAL-BERK	13.0	12.0	11.0	5.0	41.0
CAL-UCLA	12.0	7.0	18.0	.0	37.0
COLUMBIA	12.0	39.0	7.0	1.0	59.0
HARVARD	19.0	16.0	5.0	.0	40.0
HAWAII	23.0	.0	.0	2.0	25.0
ILL	4.0	10.0	1.0	.0	15.0
JHU	7.0	13.0	4.0	.0	24.0
L.LINDA	8.0	2.0	1.0	1.0	12.0
MASS	1.0	2.0	1.0	.0	4.0
MICH	8.0	5.0	2.0	.0	15.0
MINN	1.0	1.0	2.0	2.0	6.0
NO.CAR	7.0	17.0	3.0	5.0	32.0
OKLA	.0	8.0	1.0	10.0	19.0
PITT	7.0	9.0	2.0	1.0	19.0
PR	.0	.0	59.0	.0	59.0
S.DIEGO	3.0	6.0	2.0	3.0	14.0
SO.CAR	2.0	7.0	1.0	.0	10.0
SO.FLA	1.0	5.0	4.0	.0	10.0
TEXAS	10.0	11.0	11.0	1.0	33.0
TULANE	1.0	9.0	6.0	.0	16.0
WASH	5.0	2.0	2.0	.0	9.0
YALE	9.0	13.0	1.0	.0	23.0
Total	164.0	207.0	149.0	31.0	551.0

SCHOOL	WHITE	UNKNOWN	TOTAL
ALA	67.0	.0	84.0
BOSTON	92.0	.0	104.0
CAL-BERK	151.0	.0	192.0
CAL-UCLA	104.0	7.0	148.0
COLUMBIA	108.0	.0	167.0
HARVARD	150.0	.0	190.0
HAWAII	31.0	3.0	59.0
ILL	44.0	.0	59.0
JHU	178.0	.0	202.0
L.LINDA	77.0	.0	89.0
MASS	32.0	.0	36.0
MICH	188.0	5.0	208.0
MINN	129.0	.0	135.0
NO.CAR	244.0	.0	276.0
OKLA	69.0	.0	88.0
PITT	106.0	.0	125.0
PR	.0	.0	59.0
S.DIEGO	49.0	1.0	64.0
SO.CAR	56.0	.0	66.0
SO.FLA	58.0	1.0	69.0
TEXAS	61.0	.0	94.0
TULANE	109.0	.0	125.0
WASH	90.0	.0	99.0
YALE	63.0	.0	86.0
Total	2256.0	17.0	2824.0

TABLE 4-3
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY DEGREE, SEX, CITIZENSHIP & RACE/ETHNICITY /1
1988-89

DEGREE	U.S. MALES	U.S. FEMALES	FOREIGN MALES	FOREIGN FEMALES
MPH	635	1222	318	184
MS	111	194	27	33
MSPH	38	67	11	6
MHA/MHSA	71	102	5	3
OTHER.MAST	30	40	9	6
DrPH	22	54	18	8
ScD	11	22	3	5
PhD	56	82	22	13
OTHER.DOC	8	8	2	1
JOINT.DEG	28	23	1	1
TOTAL	1010	1814	416	260
% MASTERS /2	90.4	90.8	89.2	89.6
% DOCT. /2	9.6	9.2	10.8	10.4

DEGREE	MALES	FEMALES	U.S.	FOREIGN
MPH	953	1406	1857	502
MS	138	227	305	60
MSPH	49	73	105	17
MHA/MHSA	76	105	173	8
OTHER.MAST	39	46	70	15
DrPH	40	62	76	26
ScD	14	27	33	8
PhD	78	95	138	35
OTHER.DOC	10	9	16	3
JOINT.DEG	29	24	51	2
TOTAL	1426	2074	2824	676
% MASTERS /2	90.0	90.7	90.7	89.3
% DOCT. /2	10.0	9.3	9.3	10.7

			HISPANIC			
DEGREE	ASIAN	BLACK	PUERTO RICO	MAINLAND	AMERIND	WHITE
MPH	122	173	24	78	29	1423
MS	22	7	19	5	1	247
MSPH	4	8	0	2	1	90
MHA/MHSA	2	3	7	2	0	159
OTHER.MAST	3	4	9	0	0	54
DrPH	2	5	0	2	0	66
ScD	1	0	0	0	0	32
PhD	7	5	0	0	0	122
OTHER.DOC	0	0	0	0	0	16
JOINT.DEG	1	2	0	1	0	47
TOTAL	164	207	59	90	31	2256
% MASTERS /2	93.9	95.2	100.0	97.8	100.0	89.5
% DOCT. /2	6.1	4.8	---	2.2	---	10.5

/1 Excludes graduates of unknown sex, citizenship, and race/ethnicity.
/2 Includes joint degrees classified according to school of public health degree.

TABLE 4-4
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL AND DEGREE AWARDED
1988-89

SCHOOL	MPH		MS		MSPH		MHA/ MHSA		OTHER MASTERS		DrPH		ScD		PhD		OTHER DOCT.		JOINT DEGREE		TOTAL	TOTAL MAST. /1		TOTAL DOCT. /1	
ALA	81	73.0%		.0%	12	10.8%		.0%		.0%	4	3.6%		.0%		.0%		.0%	14	12.6%	111	107	96.4%	4	3.6%
BOSTON	118	98.3		.0		.0		.0		.0		.0	2	1.7		.0		.0		.0	120	118	98.3	2	1.7
CAL-BERK	176	84.6		.0		.0		.0		.0	11	5.3		.0	7	3.4		.0	14	6.7	208	190	91.3	18	8.7
CAL-UCLA	133	63.9	37	17.8		.0		.0		.0	7	3.4		.0	20	9.6	8	3.8	3	1.4	208	173	83.2	35	16.8
COLUMBIA	151	86.8	13	7.5		.0		.0		.0	10	5.7		.0		.0		.0		.0	174	164	94.3	10	5.7
HARVARD	144	52.9	95	34.9		.0		.0	3	1.1	5	1.8	25	9.2		.0		.0		.0	272	242	89.0	30	11.0
HAWAII	72	84.7	6	7.1		.0		.0		.0	5	5.9		.0	2	2.4		.0		.0	85	78	91.8	7	8.2
ILL	61	82.4	8	10.8		.0		.0		.0	2	2.7		.0	3	4.1		.0		.0	74	69	93.2	5	6.8
JHU	163	57.4	9	3.2		.0		.0	46	16.2	8	2.8	11	3.9	47	16.5		.0		.0	284	218	76.8	66	23.2
L.LINDA	83	78.3		.0	3	2.8	4	3.8		.0	7	6.6		.0		.0	9	8.5		.0	106	90	84.9	16	15.1
MASS	17	39.5	25	58.1		.0		.0		.0		.0		.0	1	2.3		.0		.0	43	42	97.7	1	2.3
MICH	130	52.8	59	24.0		.0	40	16.3		.0	3	1.2		.0	14	5.7		.0		.0	246	229	93.1	17	6.9
MINN	84	56.0	10	6.7		.0	52	34.7		.0		.0		.0	4	2.7		.0		.0	150	146	97.3	4	2.7
No.CAR	172	55.5	20	6.5	76	24.5		.0	6	1.9	14	4.5		.0	22	7.1		.0		.0	310	274	88.4	36	11.6
OKLA	86	83.5	11	10.7		.0		.0		.0	1	1.0		.0	5	4.9		.0		.0	103	97	94.2	6	5.8
PITT	57	41.9	10	7.4		.0	34	25.0	21	15.4	5	3.7	1	.7	8	5.9		.0		.0	136	122	89.7	14	10.3
PR	96	73.3	19	14.5		.0	7	5.3	9	6.9		.0		.0		.0		.0		.0	131	131	100.0	0	.0
S.DIEGO	73	100.0		.0		.0		.0		.0		.0		.0		.0		.0		.0	73	73	100.0	0	.0
So.CAR	44	57.1	4	5.2	14	18.2	5	6.5		.0	1	1.3		.0	7	9.1	2	2.6		.0	77	67	87.0	10	13.0
So.FLA	68	97.1		.0	2	2.9		.0		.0		.0		.0		.0		.0		.0	70	70	100.0	0	.0
TEXAS	76	72.4	11	10.5		.0		.0		.0	6	5.7		.0	12	11.4		.0		.0	105	87	82.9	18	17.1
TULANE	143	70.8		.0	15	7.4	13	6.4		.0	11	5.4	2	1.0		.0		.0	18	8.9	202	189	93.6	13	6.4
WASH	42	38.5	28	25.7		.0	26	23.9		.0		.0		.0	12	11.0		.0	1	.9	109	97	89.0	12	11.0
YALE	89	86.4		.0		.0		.0		.0	2	1.9		.0	9	8.7		.0	3	2.9	103	92	89.3	11	10.7
TOTAL	2359	67.4%	365	10.4%	122	3.5%	181	5.2%	85	2.4%	102	2.9%	41	1.2%	173	4.9%	19	.5%	53	1.5%	3500	3165	90.4%	335	9.6%

/1 Includes joint degrees classified according to school of public health degree.

TABLE 4-5
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY AREA AND DEGREE
1988-89

DEGREE	BIOSTAT	EPID	HSA	PHP&PM	H.EDUC/BS	ENV.SC
MPH	33.5	394.5	628.5	217.5	252.5	164.5
MS	68.0	43.0	88.0	9.0	12.0	67.5
MSPH	6.0	16.0	46.0	1.0	2.0	33.0
MHA/MHSA			180.0			
OTHER MAST.	5.0	8.0	10.0	7.0	9.0	25.0
DrPH	2.0	19.0	19.0	10.0	12.0	3.0
ScD	6.0	9.0	9.0	4.0	1.0	4.0
PhD	24.0	64.0	7.0	1.0	8.0	36.0
OTHER DOCT.					3.0	8.0
JOINT DEG.	6.0	1.0	6.0			
TOTAL	150.5	554.5	993.5	249.5	299.5	341.0
% MASTERS /1	78.7	83.4	96.5	94.0	92.0	85.0
% DOCT. /1	21.3	16.6	3.5	6.0	8.0	15.0

DEGREE	OS&H	NUTR	BIOMED	OTHER	NONSPEC	TOTAL
MPH	53.0	83.5	22.0	251.5	258.0	2359.0
MS	14.5	8.0	5.0	50.0		365.0
MSPH	3.0		6.0	9.0		122.0
MHA/MHSA				1.0		181.0
OTHER MAST.	9.0		5.0	7.0		85.0
DrPH	2.0	5.0	9.0	15.0	6.0	102.0
ScD	2.0		1.0	5.0		41.0
PhD	1.0	4.0	20.0	8.0		173.0
OTHER DOCT.		8.0				19.0
JOINT DEG.			1.0	7.0	32.0	53.0
TOTAL	84.5	108.5	69.0	353.5	296.0	3500.0
% MASTERS /1	94.5	84.3	56.5	92.1	98.0	90.4
% DOCT. /1	5.9	15.7	43.5	7.9	2.0	9.6

/1 Includes joint degrees classified according to school of public health degree.

TABLE 4-6
U.S. SCHOOLS OF PUBLIC HEALTH
JOINT DEGREES BY AREA, SEX & CITIZENSHIP
1988-89

AREA	SUBAREA	JOINT DEGREE	TOTAL
BIOSTAT		MS-MA	6.0
EPID		MPH-MA	1.0
HSA		MD-MPH	1.0
HSA		MPH-MBA	1.0
HSA		MPH-MPPM	1.0
HSA		MPH-MSN	2.0
HSA		MPH-PhD	1.0
BIOMED		MS-MA	1.0
OTHER	GENETICS	MS-MA	7.0
NONSPEC		MD-MPH	18.0
NONSPEC		MPH-JD	6.0
NONSPEC		MPH-MBA	6.0
NONSPEC		MPH-MPA	1.0
NONSPEC		MPH-PhD	1.0
Total			53.0

JOINT DEGREE	MALE	FEMALE	U.S.	FORIEGN
MD-MPH	12.0	7.0	19.0	.0
MPH-JD	5.0	1.0	6.0	.0
MPH-MA	1.0	.0	1.0	.0
MPH-MBA	5.0	2.0	7.0	.0
MPH-MPA	.0	1.0	1.0	.0
MPH-MPPM	.0	1.0	1.0	.0
MPH-MSN	1.0	1.0	2.0	.0
MPH-PhD	.0	2.0	2.0	.0
MS-MA	5.0	9.0	12.0	2.0
Total	29.0	24.0	51.0	2.0

TABLE 4-7
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY AREA, SEX, CITIZENSHIP, & RACE/ETHNICITY /1
1988-89

AREA	U.S. MALES	U.S. FEMALES	FOREIGN MALES	FOREIGN FEMALES
BIOSTAT	43.0	63.5	18.0	26.0
EPID	154.0	258.5	93.0	49.5
HSA	303.5	576.0	72.0	42.0
PHP&PM	33.5	169.0	29.0	18.0
H.EDUC/BS	52.0	217.5	15.0	14.5
ENV.SC	157.5	147.5	23.0	13.0
OS&H	57.5	20.0	7.0	0.0
NUTR	12.0	75.5	6.0	15.0
BIOMED	24.0	32.0	7.0	6.0
OTHER	73.0	158.5	78.0	44.0
NONSPEC	100.0	96.0	68.0	32.0
TOTAL	1010.0	1814.0	416.0	260.0

AREA	MALE	FEMALE	U.S.	FOREIGN
BIOSTAT	61.0	89.5	106.5	44.0
EPID	247.0	308.0	412.5	142.5
HSA	375.5	618.0	879.5	114.0
PHP&PM	62.5	187.0	202.5	47.0
H.EDUC/BS	67.0	232.0	269.5	29.5
ENV.SC	180.5	160.5	305.0	36.0
OS&H	64.5	20.0	77.5	7.0
NUTR	18.0	90.5	87.5	21.0
BIOMED	31.0	38.0	56.0	13.0
OTHER	151.0	202.5	231.5	122.0
NONSPEC	168.0	128.0	196.0	100.0
TOTAL	1426.0	2074.0	2824.0	676.0

			HISPANIC			
AREA	ASIAN	BLACK	PUERTO RICO	MAINLAND	AMERIND	WHITE
BIOSTAT	12.0	5.0	2.0	1.0	0.0	85.5
EPID	26.0	32.0	5.0	15.0	0.0	333.5
HSA	39.0	65.0	12.0	23.0	18.0	719.5
PHP&PM	8.0	21.0	4.0	6.0	2.0	161.5
H.EDUC/BS	18.0	19.0	9.0	11.0	7.0	204.5
ENV.SC	20.0	11.0	10.0	4.0	3.0	253.0
OS&H	5.0	4.0	0.0	1.0	0.0	67.5
NUTR	4.0	5.0	0.0	4.0	0.0	72.5
BIOMED	4.0	1.0	0.0	0.0	0.0	51.0
OTHER	15.0	14.0	4.0	12.0	1.0	181.5
NONSPEC	13.0	30.0	13.0	13.0	0.0	126.0
TOTAL	164.0	207.0	59.0	90.0	31.0	2256.0

/1 Excludes graduates of unknown sex, citizenship, and race/ethnicity

TABLE 4-8
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL AND AREA OF SPECIALIZATION
1988-89

SCHOOL	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC		OS&H		MUTR		BIOMED		OTHER		NONSPEC		TOTAL
ALA		.0%	33.0	29.7%	2.0	1.8%	10.5	9.5%	5.5	5.0%	3.0	2.7%	5.0	4.5%		.0%		.0%	16.0	14.4%	36.0	32.4%	111.0
BOSTON		.0	30.0	25.0	68.0	56.7		.0	4.0	3.3	18.0	15.0		.0		.0		.0		.0		.0	120.0
CAL-BERK	8.0	3.8	41.0	19.7	37.0	17.8	29.0	13.9	29.0	13.9	17.0	8.2		.0	16.0	7.7	12.0	5.8	10.0	4.8	9.0	4.3	208.0
CAL-UCLA	21.0	10.1	42.0	20.2	37.0	17.8		.0	26.0	12.5	24.0	11.5		.0	18.0	8.7		.0	40.0	19.2		.0	208.0
COLUMBIA	6.0	3.4	26.0	14.9	50.0	28.7	3.0	1.7	7.0	4.0	10.0	5.7		.0		.0		.0	40.0	23.0	32.0	18.4	174.0
HARVARD	18.0	6.6	25.0	9.2	91.0	33.5	17.0	6.3	5.0	1.8	8.0	2.9	18.0	6.6	2.0	.7	1.0	.4	26.0	9.6	61.0	22.4	272.0
HAWAII	1.0	1.2	8.0	9.4	18.0	21.2	9.0	10.6	12.0	14.1	15.0	17.6		.0	8.0	9.4		.0	9.0	10.6	5.0	5.9	85.0
ILL		.0	17.0	23.0	22.0	29.7	25.0	33.8		.0	10.0	13.5		.0		.0		.0		.0		.0	74.0
JHU	9.0	3.2	61.0	21.5	65.0	22.9	19.0	6.7		.0	36.0	12.7		.0		.0	28.0	9.9	66.0	23.2		.0	284.0
L.LINDA	2.0	1.9	5.5	5.2	11.0	10.4		.0	57.5	54.2	1.5	1.4		.0	13.5	12.7		.0	13.0	12.3	2.0	1.9	106.0
MASS	2.0	4.7	14.0	32.6	13.0	30.2		.0	6.0	14.0	6.0	14.0		.0	2.0	4.7		.0		.0		.0	43.0
MICH	16.5	6.7	27.0	11.0	56.5	23.0	10.0	4.1	23.5	9.6	26.5	10.8	32.5	13.2	7.0	2.8		.0	46.5	18.9		.0	246.0
MINN	4.0	2.7	22.0	14.7	72.0	48.0	18.0	12.0	12.0	8.0	17.0	11.3		.0	5.0	3.3		.0		.0		.0	150.0
No.CAR	29.0	9.4	29.0	9.4	93.0	30.0	46.0	14.8	30.0	9.7	41.0	13.2		.0	22.0	7.1	20.0	6.5		.0		.0	310.0
OKLA	2.0	1.9	12.0	11.7	53.0	51.5		.0	8.0	7.8	28.0	27.2		.0		.0		.0		.0		.0	103.0
PITT	4.0	2.9	26.0	19.1	72.0	52.9		.0		.0	13.0	9.6	6.0	4.4		.0	5.0	3.7	10.0	7.4		.0	136.0
PR	2.0	1.5	5.0	3.8	12.0	9.2	5.0	3.8	9.0	6.9	10.0	7.6		.0		.0		.0	4.0	3.1	84.0	64.1	131.0
S.DIEGO		.0	6.0	8.2	25.0	34.2	22.0	30.1	11.0	15.1	5.0	6.8	4.0	5.5		.0		.0		.0		.0	73.0
So.CAR	2.0	2.6	17.0	22.1	12.0	15.6		.0	27.0	35.1	13.0	16.9		.0		.0		.0		.0	6.0	7.8	77.0
So.FLA		.0	10.0	14.3	31.0	44.3	15.0	21.4	8.0	11.4	3.0	4.3	3.0	4.3		.0		.0		.0		.0	70.0
TEXAS	7.0	6.7	7.0	6.7	11.0	10.5	9.0	8.6	2.0	1.9	7.0	6.7	9.0	8.6		.0		.0	26.0	24.8	27.0	25.7	105.0
TULANE	5.0	2.5	33.0	16.3	33.0	16.3	12.0	5.9	17.0	8.4	8.0	4.0		.0	15.0	7.4		.0	47.0	23.3	32.0	15.8	202.0
WASH	10.0	9.2	24.0	22.0	55.0	50.5		.0		.0	10.0	9.2	7.0	6.4		.0	3.0	2.8		.0		.0	109.0
YALE	2.0	1.9	34.0	33.0	54.0	52.4		.0		.0	11.0	10.7		.0		.0		.0		.0	2.0	1.9	103.0
TOTAL	150.5	4.3%	554.5	15.8%	993.5	28.4%	249.5	7.1%	299.5	8.6%	341.0	9.7%	84.5	2.4%	108.5	3.1%	69.0	2.0%	353.5	10.1%	296.0	8.5%	3500.0

TABLE 4-9
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES WITH PRIOR M.D. DEGREES BY AREA & DEGREE
1988-89

AREA	U.S.	FOREIGN	TOTAL	% OF GRADUATES WITH PRIOR M.D. DEGREES
BIOSTAT	8.0	5.0	13.0	8.6 %
EPID	112.0	97.0	209.0	37.7
HSA	88.0	49.0	137.0	13.8
PHP&PM	46.0	34.0	80.0	32.1
H.EDUC/BS	10.0	6.0	16.0	5.3
ENV.SC	32.0	9.0	41.0	12.0
OS&H	20.0	7.0	27.0	32.0
NUTR	0.0	7.0	7.0	6.5
BIOMED	7.0	3.0	10.0	14.5
OTHER	35.0	58.0	93.0	26.3
NONSPEC	48.0	88.0	136.0	46.0
TOTAL	406.0	363.0	769.0	22.0

DEGREE	U.S.	FOREIGN	TOTAL
MPH	367.0	328.0	695.0
MS	16.0	14.0	30.0
MSPH	1.0	2.0	3.0
MHA/MHSA	1.0	0.0	1.0
OTHER.MAST	5.0	7.0	12.0
DrPH	6.0	6.0	12.0
ScD	2.0	2.0	4.0
PhD	8.0	4.0	12.0
TOTAL	406	363	769

TABLE 4-10
U.S. SCHOOLS OF PUBLIC HEALTH
HIGHEST PREVIOUS DEGREE OF GRADUATES BY SEX & CITIZENSHIP /1
1988-89

PRIOR DEGREE	U.S. MALES		U.S. FEMALES		FOREIGN MALES		FOREIGN FEMALES	
BACHELORS	547	54.7 %	1121	62.2 %	95	23.6 %	105	41.0 %
NURSING	22	2.2	265	14.7	4	1.0	11	4.3
MASTERS	117	11.7	208	11.5	27	6.7	27	10.5
MD	255	25.5	151	8.4	261	64.8	102	39.8
DDS	16	1.6	9	.5	5	1.2	4	1.6
DVM	12	1.2	7	.4	3	.7	0	.0
PhD	14	1.4	12	.7	4	1.0	3	1.2
OTHER.DOC	7	.7	3	.2	3	.7	2	.8
OTHER.DEG	10	1.0	27	1.5	1	.2	2	.8
UNKNOWN	9	---	13	---	13	---	3	---
TOTAL	1009	100.0 %	1816	100.0 %	416	100.0 %	259	100.0 %

PRIOR DEGREE	MALE		FEMALE		U.S.		FOREIGN	
BACHELORS	642	45.8 %	1226	59.5 %	1668	59.5 %	200	30.3 %
NURSING	26	1.9	276	13.4	287	10.2	15	2.3
MASTERS	144	10.3	235	11.4	325	11.6	54	8.2
MD	516	36.8	253	12.3	406	14.5	363	55.1
DDS	21	1.5	13	.6	25	.9	9	1.4
DVM	15	1.1	7	.3	19	.7	3	.5
PhD	18	1.3	15	.7	26	.9	7	1.1
OTHER.DOC	10	.7	5	.2	10	.4	5	.8
OTHER.DEG	11	.8	29	1.4	37	1.3	3	.5
UNKNOWN	22	---	16	---	22	---	16	---
TOTAL	1425	100.0 %	2075	100.0 %	2825	100.0 %	675	100.0 %

/1 Excludes graduates of unknown sex and citizenship.

TABLE 4-11
U.S. SCHOOLS OF PUBLIC HEALTH
HIGHEST PREVIOUS DEGREE OF GRADUATES BY SCHOOL
1988-89

SCHOOL	BACHELOR		NURSING DEGREE /1		MASTERS		MD/DO		DDS		DVM		PhD		OTHER DOCT.		OTHER DEGREE		UNKNOWN	TOTAL
ALA	60	54.1%	9	8.1%	18	16.2%	19	17.1%	2	1.8%	2	1.8%		.0%	1	.9%		.0%		111
BOSTON	85	70.8	9	7.5	9	7.5	12	10.0	2	1.7		.0	1	.8	2	1.7		.0		120
CAL-BERK	96	46.2	16	7.7	45	21.6	46	22.1	3	1.4		.0	2	1.0		.0		.0		208
CAL-UCLA	142	68.3	6	2.9	10	4.8	36	17.3	3	1.4		.0		.0		.0	11	5.3		208
COLUMBIA	116	66.7	20	11.5	7	4.0	14	8.0		.0		.0	3	1.7		.0	14	8.0		174
HARVARD	66	24.3	11	4.0	30	11.0	138	50.7	8	2.9	5	1.8	6	2.2		.0	8	2.9		272
HAWAII	42	49.4	9	10.6	10	11.8	23	27.1		.0		.0	1	1.2		.0		.0		85
ILL	31	44.9	6	8.7	3	4.3	28	40.6		.0		.0		.0		.0	1	1.4	5	74
JHU	88	31.2	20	7.1	47	16.7	120	42.6		.0	2	.7		.0	2	.7	3	1.1	2	284
L.LINDA	53	50.0	28	26.4	10	9.4	14	13.2	1	.9		.0		.0		.0		.0		106
MASS	36	83.7	2	4.7	2	4.7	3	7.0		.0		.0		.0		.0		.0		43
MICH	201	---	1	---	16	---	19	---	4	---		---		---	5	---		---		246
MINN	81	56.6	22	15.4	17	11.9	14	9.8		.0	4	2.8	5	3.5		.0		.0	7	150
No.CAR	156	53.4	32	11.0	47	16.1	44	15.1	6	2.1	2	.7	3	1.0	2	.7		.0	18	310
OKLA	60	58.3	18	17.5	7	6.8	15	14.6	2	1.9	1	1.0		.0		.0		.0		103
PITT	94	69.1	7	5.1	10	7.4	21	15.4	2	1.5		.0	2	1.5		.0		.0		136
PR	49	37.4	6	4.6		.0	76	58.0		.0		.0		.0		.0		.0		131
S.DIEGO	45	61.6	11	15.1	3	4.1	11	15.1	1	1.4	1	1.4		.0	1	1.4		.0		73
So.CAR	55	71.4	4	5.2	11	14.3	5	6.5		.0	2	2.6		.0		.0		.0		77
So.FLA	42	60.0	18	25.7	2	2.9	4	5.7		.0		.0	3	4.3		.0	1	1.4		70
TEXAS	39	37.1	9	8.6	26	24.8	25	23.8		.0	1	1.0	3	2.9	1	1.0	1	1.0		105
TULANE	119	60.7	14	7.1	20	10.2	42	21.4		.0		.0		.0		.0	1	.5	6	202
WASH	45	41.3	20	18.3	18	16.5	21	19.3		.0	2	1.8	3	2.8		.0		.0		109
YALE	67	65.0	4	3.9	11	10.7	19	18.4		.0		.0	1	1.0	1	1.0		.0		103
TOTAL	1868	54.0%	302	8.7%	379	10.9%	769	22.2%	34	1.0%	22	.6%	33	1.0%	15	.4%	40	1.2%	38	3500

/1 All nursing degrees are included in this category -- bachelors, masters, and doctorates.

B. Graduate Trends

In 1960-61, there were 770 graduates from 12 U.S. and 2 Canadian schools of public health. By 1980-81, there were over 3,000 graduates annually from the U.S. schools of public health. Many of the graduate trends duplicate trends in student characteristics and will not be repeated.

The MPH remains the most commonly awarded degree, and accounts for about 65% of the total degrees awarded (75% of the total master's degrees) each year. The MS represents about 10% of the total degrees, (10% of the total master's), the MSPH about 3-4% (4%), the MHA/MHSA about 5-6% (6%), and other master's degrees around 3% (4%). The number of degrees in the various master's categories fluctuates from year to year, sometimes significantly, so it is difficult to identify trends in the master's degrees awarded. It appears, however, that the proportion of MSPH degrees awarded is declining. It is also probable that the proportion of MHA/MHSA degrees awarded will increase, as a growing number of schools are offering this degree.

The proportion of doctorates increased during the late 1960s to around 9% and has remained at about that level, fluctuating between 8-11% of total degrees awarded. The PhD degree supplanted the DrPH and ScD degrees as the most commonly-awarded doctoral degree in the late 1960s, and continues to be the most popular doctoral degree. In 1961-62, 47% of the doctorates were DrPH degrees, 33% were ScD degrees, and 20% were PhD degrees. In 1988-89, 26% of the doctorates were DrPH degrees, 12% were ScD degrees, and over 58% were PhD degrees (6% were other doctorates). Twenty-two schools of public health currently offer doctoral degrees, and one additional school will initiate a doctoral program in Fall 1991.

During the early 1960s, over half of the U.S. graduates from schools of public health had prior degrees in the health professions, particularly medicine, nursing, dentistry, and veterinary medicine. Over the years the <u>proportion</u> of U.S. graduates with prior medical training decreased (although in most cases, the actual <u>numbers</u> increased) as school of public health enrollment reflected a greater diversity among students during the 1970s and 1980s. While the majority of students still had health-related undergraduate degrees (e.g., biological sciences), a smaller proportion were medically-trained professionals.

Within the last several years, however, the proportion of medically-trained U.S. graduates has been rising. The data on highest previous degree of total graduates is greatly influenced by an increase or decrease in the proportion of foreign graduates, as these individuals more commonly have medical degrees than U.S. graduates. However, as the data below indicates, the proportion of U.S. graduates with prior medical degrees is also increasing.

The following data gives the number of medically-trained U.S. graduates since 1960-61. The percentage reflects the proportion of total U.S. graduates for the given academic year.

	1961-62		1969-70		1982-83		1985-86		1987-88	
Physicians	145	26%	204	15%	223	10%	281	10.8%	357	14.4%
Dentists	22	4%	56	4%	39	2%	23	0.9%	34	1.4%
Veterinarians	12	2%	19	1%	12	0.5%	14	0.5%	22	0.9%
Nurses	62	11%	186	14%	177	8%	209	8.0%	257	10.4%

	1988-1989	
Physicians	406	14.5%
Dentists	25	0.9%
Veterinarians	19	0.7%
Nurses	287	10.2%

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES

Graduates by Sex

YEAR	MALES		FEMALES		UNKNOWN	TOTAL
1960-61	556	72.2 %	214	27.8 %	0	770
1961-62	620	77.3	182	22.7	0	802
1962-63	627	73.7	224	26.3	0	851
1963-64	739	74.0	259	26.0	0	998
1964-65	813	71.2	329	28.8	0	1142
1965-66	831	68.8	377	31.2	0	1208
1966-67	795	68.0	374	32.0	65	1234
1967-68	893	64.9	483	35.1	14	1390
1968-69	1061	66.4	538	33.6	0	1599
1969-70	1148	65.9	593	34.1	0	1741
1974-75 /1	1270	56.1	992	43.9	0	2262
1975-76	1554	53.6	1343	46.4	0	2897
1976-77	1453	52.4	1321	47.6	0	2774
1977-78 /1	1410	50.1	1403	49.9	0	2813
1978-79	1431	49.1	1486	50.9	0	2917
1979-80	1576	47.4	1750	52.6	0	3326
1980-81 /2	1479	46.7	1689	53.3	0	3168
1981-82	1434	44.9	1762	55.1	0	3196
1982-83	1535	44.0	1957	56.0	0	3492
1983-84	1477	44.8	1820	55.2	2	3299
1984-85	1253	41.1	1794	58.9	0	3047
1985-86	1358	41.6	1909	58.4	1	3268
1986-87	1292	40.5	1899	59.5	0	3191
1987-88	1473	42.7	1974	57.3	0	3447
1988-89	1426	40.7	2074	59.3	0	3500

/1 Puerto Rico did not report in 1974-75 and 1977-78.
/2 Columbia did not report in 1980-81.

Data for 1960-61/1969-70 is from Dr. James Troupin and includes two Canadian schools.

Data for 1974-75/1980-81 includes bachelor degrees.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

U.S. Graduates by Race/Ethnicity

YEAR	ASIAN		BLACK		HISPANIC				AMERIND		WHITE		UNKNOWN	TOTAL
					PUERTO RICO		MAINLAND							
1974-75	73	4.1%	176	9.8%	N/A	N/A	38	2.1%	20	1.1%	1495	83.0%	187	1989
1975-76	92	3.7	188	7.5	121	4.8%	47	1.9	18	.7	2037	81.4	32	2535
1976-77	122	4.9	176	7.1	38	1.5	43	1.7	19	.8	2081	83.9	0	2479
1977-78	113	4.6	148	6.0	N/A	N/A	48	2.0	22	.9	2126	86.5	2	2459
1978-79	142	5.4	164	6.3	64	2.4	46	1.8	28	1.1	2179	83.1	0	2623
1979-80	113	3.9	182	6.3	82	2.8	50	1.7	25	.9	2452	84.4	19	2923
1980-81	149	5.7	163	6.2	46	1.8	73	2.8	24	.9	2159	82.6	148	2762
1981-82	112	4.4	143	5.6	40	1.6	64	2.5	24	.9	2181	85.1	156	2720
1982-83	150	5.1	166	5.6	45	1.5	51	1.7	27	.9	2508	85.1	22	2969
1983-84	112	4.3	150	5.8	53	2.0	57	2.2	25	1.0	2191	84.7	64	2652
1984-85	125	5.0	140	5.6	39	1.6	49	2.0	18	.7	2113	85.1	52	2536
1985-86	112	4.3	150	5.7	58	2.2	37	1.4	20	.8	2242	85.6	84	2703
1986-87	106	4.1	153	6.0	49	1.9	60	2.3	14	.5	2178	85.1	69	2629
1987-88	132	5.2	139	5.5	60	2.4	79	3.1	18	.7	2102	83.1	191	2721
1988-89	164	5.8	207	7.4	59	2.1	90	3.2	31	1.1	2256	80.4	17	2824

Graduates by Citizenship

YEAR	U.S.		FOREIGN		UNKNOWN	TOTAL
1974-75	1989	87.9%	273	12.1%	0	2262
1975-76	2535	87.5	362	12.5	0	2897
1976-77	2479	89.4	295	10.6	0	2774
1977-78	2459	87.4	354	12.6	0	2813
1978-79	2623	89.9	294	10.1	0	2917
1979-80	2923	87.9	403	12.1	0	3326
1980-81	2762	87.2	406	12.8	0	3168
1981-82	2720	85.1	476	14.9	0	3196
1982-83	2969	85.0	523	15.0	0	3492
1983-84	2652	81.6	597	18.4	50	3299
1984-85	2536	83.9	485	16.1	26	3047
1985-86	2703	83.0	553	17.0	12	3268
1986-87	2629	82.4	562	17.6	0	3191
1987-88	2721	79.0	725	21.0	1	3447
1988-89	2824	80.7	676	19.3	0	3500

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

Graduates by Degree Awarded

YEAR	BACHELOR		MPH		MS		MSPH		MHA/ MHSA		OTHER MASTERS		DrPH	
1974-75	39	1.7%	1497	66.2%	N/A	N/A	148	6.5%	N/A	N/A	398 /1	17.2%	69	3.1%
1975-76	133	4.6	1803	62.2	243	8.4%	188	6.5	147	5.1%	151	5.2	90	3.1
1976-77	85	3.1	1681	60.6	274	9.9	96	3.5	156	5.6	246	8.9	82	3.0
1977-78	71	2.5	1851	65.8	251	8.9	152	5.4	91	3.2	134	4.8	69	2.5
1978-79	69	2.4	1829	62.7	322	11.0	158	5.4	115	3.9	135	4.6	84	2.9
1979-80	65	2.0	2076	62.4	374	11.2	212	6.4	161	4.8	129	3.9	76	2.3
1980-81	126	4.0	1918	60.5	307	9.7	211	6.7	133	4.2	170	5.4	80	2.5
1981-82	N/A	N/A	2089	65.4	326	10.2	184	5.8	143	4.5	131	4.1	113	3.5
1982-83	N/A	N/A	2235	64.0	372	10.7	176	5.0	200	5.7	130	3.7	89	2.5
1983-84	N/A	N/A	1997	60.5	298	9.0	241	7.3	183	5.5	142	4.3	77	2.3
1984-85	N/A	N/A	1967	64.6	266	8.7	161	5.3	165	5.4	109	3.6	80	2.6
1985-86	N/A	N/A	2115	64.7	339	10.4	117	3.6	171	5.2	100	3.1	107	3.3
1986-87	N/A	N/A	2106	66.0	328	10.3	109	3.4	171	5.4	97	3.0	96	3.0
1987-88	N/A	N/A	2252	65.3	316	9.2	113	3.3	191	5.5	115	3.3	106	3.1
1988-89	N/A	N/A	2359	67.4	365	10.4	122	3.5	181	5.2	85	2.4	102	2.9

YEAR	ScD		PhD		OTHER DOCTORATE		JOINT MD DEGREE		OTHER JOINT DEGREE		TOTAL
1974-75	32	1.4%	76	3.4%	13	.6%	N/A	N/A	N/A	N/A	2262
1975-76	35	1.2	94	3.2	13	.4	N/A	N/A	N/A	N/A	2897
1976-77	37	1.3	88	3.2	0	.0	29	1.0%	N/A	N/A	2774
1977-78	55	2.0	102	3.6	11	.4	26	.9	N/A	N/A	2813
1978-79	43	1.5	125	4.3	13	.4	24	.8	N/A	N/A	2917
1979-80	55	1.7	141	4.2	17	.5	20	.6	N/A	N/A	3326
1980-81	53	1.7	140	4.4	9	.3	21	.7	N/A	N/A	3168
1981-82	40	1.3	138	4.3	15	.5	17	.5	N/A	N/A	3196
1982-83	46	1.3	154	4.4	17	.5	24	.7	49	1.4%	3492
1983-84	47	1.4	214	6.5	15	.5	21	.6	64	1.9	3299
1984-85	54	1.8	156	5.1	13	.4	20	.7	56	1.8	3047
1985-86	47	1.4	182	5.6	10	.3	27	.8	53	1.6	3268
1986-87	35	1.1	156	4.9	6	.2	29	.9	58	1.8	3191
1987-88	53	1.5	240	7.0	12	.3	19 /2	.6	30 /2	.9	3447
1988-89	41	1.2	173	4.9	19	.5	19 /2	.5	34 /2	1.0	3500

/1 Includes MS, MHA/MSHA and Other Masters.
/2 Columbia did not report joint degrees for 1987-88 and 1988-89.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

Graduates by Area of Specialization /1

YEAR	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC	
1974-75	128.0	6.3 %	207.0	10.2 %	637.0	31.3 %	259.0	12.7 %	100.0	4.9 %	257.0	12.6 %
1975-76	141.0	4.9	266.0	9.2	932.0	32.2	400.0	13.8	221.0	7.6	364.0	12.6
1976-77	148.0	5.3	291.0	10.5	812.0	29.3	312.0	11.2	181.0	6.5	373.0	13.4
1977-78	159.0	5.7	313.0	11.1	737.0	26.2	310.0	11.0	182.0	6.5	421.0	15.0
1978-79	135.0	4.6	354.0	12.1	760.0	26.1	298.0	10.2	176.0	6.0	444.0	15.2
1979-80	138.0	4.1	265.0	8.0	864.0	26.0	384.0	11.5	291.0	8.7	395.0	11.9
1980-81	141.0	4.5	281.0	8.9	736.0	23.2	263.0	8.3	264.0	8.3	375.0	11.8
1981-82	157.0	4.9	349.5	11.0	832.5	26.1	346.5	10.9	222.0	7.0	344.5	10.8
1982-83	148.5	4.3	392.5	11.2	962.0	27.5	362.0	10.4	233.0	6.7	420.5	12.0
1983-84	132.5	4.0	423.0	12.8	906.0	27.5	286.0	8.7	230.0	7.0	428.5	13.0
1984-85	135.0	4.4	380.0	12.5	867.0	28.5	282.0	9.3	275.0	9.0	353.0	11.6
1985-86	118.0	3.6	450.0	13.8	933.0	28.5	281.0	8.6	284.5	8.7	388.5	11.9
1986-87	129.0	4.0	440.0	13.8	876.5	27.5	304.0	9.5	255.0	8.0	347.0	10.9
1987-88	168.0	4.9	517.5	15.0	927.5	26.9	268.0	7.8	269.5	7.8	377.5	11.0
1988-89	150.5	4.3	554.5	15.8	993.5	28.4	249.5	7.1	299.5	8.6	341.0	9.7

YEAR	OS&H		NUTR		BIOMED		OTHER		NONSPEC		UNKNOWN	TOTAL
1974-75	26.0	1.3 %	120.0	5.9 %	32.0	1.6 %	259.0	12.7 %	13.0	.6 %	224	2262
1975-76	43.0	1.5	145.0	5.0	74.0	2.6	226.0	7.8	85.0	2.9	0	2897
1976-77	22.0	.8	131.0	4.7	61.0	2.2	443.0	16.0	N/A	N/A	0	2774
1977-78	19.0	.7	140.0	5.0	88.0	3.1	444.0	15.8	N/A	N/A	0	2813
1978-79	22.0	.8	164.0	5.6	88.0	3.0	476.0	16.3	N/A	N/A	0	2917
1979-80	92.0	2.8	167.0	5.0	124.0	3.7	511.0	15.4	95.0	2.9	0	3326
1980-81	114.0	3.6	209.0	6.6	98.0	3.1	500.0	15.8	187.0	5.9	0	3168
1981-82	146.5	4.6	204.5	6.4	92.0	2.9	302.0	9.5	194.0	6.1	5	3196
1982-83	95.5	2.7	158.5	4.5	72.0	2.1	290.5	8.3	357.0	10.2	0	3492
1983-84	60.0	1.8	120.5	3.7	90.0	2.7	402.5	12.2	220.0	6.7	0	3299
1984-85	83.5	2.7	119.5	3.9	74.0	2.4	295.0	9.7	183.0	6.0	0	3047
1985-86	78.0	2.4	111.0	3.4	104.0	3.2	304.0	9.3	216.0	6.6	0	3268
1986-87	88.0	2.8	110.5	3.5	79.0	2.5	340.0	10.7	222.0	7.0	0	3191
1987-88	76.5	2.2	128.0	3.7	69.0	2.0	389.5	11.3	256.0	7.4	0	3447
1988-89	84.5	2.4	108.5	3.1	69.0	2.0	353.5	10.1	296.0	8.5	0	3500

/1 Graduates with dual majors counted as .5 in each area beginning in 1981-82.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

Graduates by Highest Previous Degree

YEAR	BACHELOR		NURSING DEGREE /1		MASTERS		MD/DO		DDS	
1981-82	1339	63.3 %	N/A	N/A	289	13.7 %	378	17.9 %	34	1.6
1982-83	1576	59.2	185	7.0 %	330	12.4	430	16.2	54	2.0
1983-84	1713	57.0	214	7.2	402	13.6	480	16.2	51	1.7
1984-85	1650	55.6	219	7.4	371	12.5	479	16.2	33	1.1
1985-86	1817	57.9	223	7.1	392	12.5	541	17.2	36	1.1
1986-87	1642	52.7	325	10.4	351	11.3	631	20.3	51	1.6
1987-88	1569	50.0	287	9.1	405	12.9	700	22.3	62	2.0
1987-88	1868	54.0	302	8.7	379	10.9	769	22.2	34	1.0

YEAR	DVM		PhD		OTHER DOCT.		OTHER DEGREE		UNKNOWN	TOTAL
1981-82	6	.3 %	41	1.9 %	24	1.1 %	3	.1 %	1082	3196
1982-83	15	.6	34	1.3	16	.6	20	.8	832	3492
1983-84	14	.5	46	1.6	28	.9	16	.5	335	3299
1984-85	15	.5	31	1.0	42	1.4	125	4.2	82	3047
1985-86	19	.6	36	1.1	22	.7	53	1.7	129	3268
1986-87	29	.9	48	1.5	15	.5	22	.7	77	3191
1987-88	27	.9	44	1.4	7	.2	37	1.2	309	3447
1988-89	22	.6	33	1.0	15	.4	40	1.2	38	3500

/1 Nursing degree category includes nursing degrees at all levels -- bachelor, master or doctoral.

U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL BY MASTERS/DOCTORAL DEGREES

SCHOOL	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89
ALA	*	*	*	1/0	13/0	12/0	20/0	30/0	55/2	43/1	44/0	99/2	99/4	119/2	107/4
BOSTON	*	*	*	*	*	*	*	75/0	87/0	92/0	107/0	101/0	98/1	117/0	118/2
CAL-BERK	201/19	245/15	233/26	255/19	203/14	214/11	229/20	184/18	204/18	204/30	175/20	219/19	185/29	173/20	190/18
CAL-UCLA	151/12	190/26	171/13	171/14	212/26	186/14	201/16	185/24	182/16	190/36	172/17	169/27	153/24	180/31	173/35
COLUMBIA	62/5	88/6	89/9	102/8	105/6	153/12	* *	137/11	149/7	185/9	190/11	183/10	156/9	178/15	164/10
HARVARD	147/11	186/16	177/14	196/28	217/32	232/34	216/39	200/26	209/21	180/22	201/20	193/26	208/18	173/43	242/30
HAWAII	57/0	97/0	131/0	143/0	152/1	160/0	158/1	149/3	176/4	116/4	104/3	72/4	106/9	91/9	78/7
ILL	62/0	89/0	79/0	79/1	67/0	59/1	82/5	78/4	86/11	66/9	70/7	57/7	90/2	95/2	69/5
JHU	175/34	159/44	191/36	177/48	213/40	180/68	240/48	220/43	211/49	247/68	208/73	234/60	241/47	226/83	218/66
L.LINDA	90/13	93/13	107/10	130/11	101/13	180/18	148/9	134/15	162/14	242/6	116/7	136/7	92/5	99/5	90/16
MASS	27/0	53/0	24/0	27/0	35/0	47/0	41/0	42/0	57/0	29/0	31/1	30/1	37/0	43/1	42/1
MICH	335/6	386/16	303/19	241/16	254/34	300/25	266/21	285/18	356/20	209/27	224/15	214/27	212/23	213/46	229/17
MINN	101/5	144/6	154/3	193/4	166/10	215/9	161/11	205/4	249/7	191/8	166/4	199/14	207/5	162/10	146/4
No.CAR	199/29	205/28	205/22	221/35	228/30	236/35	224/33	229/46	230/45	254/50	237/41	229/32	250/38	222/45	274/36
OKLA	43/21	53/9	55/12	38/11	40/12	34/12	47/14	35/14	39/14	37/10	49/8	80/7	63/4	67/5	97/6
PITT	89/6	143/9	127/12	112/11	116/7	155/15	135/18	111/24	122/19	108/14	98/20	97/22	90/22	121/28	122/14
PR	* *	88/0	54/0	* *	64/0	89/0	58/0	47/0	48/0	57/0	52/0	58/0	61/0	114/0	131/0
S.DIEGO	*	*	*	*	*	*	*	10/0	39/0	30/0	48/0	49/0	50/0	66/0	73/0
So.CAR	*	*	30/0	38/0	24/0	52/0	45/0	70/0	41/3	52/1	37/3	57/6	53/4	64/5	67/10
So.FLA	*	*	*	*	*	*	*	*	*	*	*	*	28/0	50/0	70/0
TEXAS	78/22	86/29	85/19	90/16	93/17	126/14	143/23	149/38	131/25	82/27	74/26	84/44	110/23	106/32	87/18
TULANE	94/4	119/8	120/4	150/3	140/6	161/7	178/4	136/7	172/13	164/5	166/12	179/13	144/7	181/9	189/13
WASH	31/0	39/3	61/0	56/5	56/8	71/9	67/14	85/6	85/10	69/12	85/10	81/9	82/11	88/11	97/12
YALE	91/3	69/4	86/8	85/7	84/9	110/5	101/6	94/5	96/8	98/15	90/5	102/9	83/8	88/9	92/11
TOTAL	2033/190 2223	2532/232 2764	2482/207 2689	2505/237 2742	2583/265 2848	2972/289 3261	2760/282 3042	2890/306 3196	3186/306 3492	2945/354 3299	2744/303 3047	2922/346 3268	2898/293 3191	3036/411 3447	3165/335 3500

* Indicates school not yet in operation.
* * Indicates missing data.

V. EXPENDITURES 1988-89

Expenditures represent the monies spent by the school of public health during the fiscal year. Expenditures do **not** represent the total amount budgeted for the schools nor the total monies that are available under the school's grants and contracts.

Expenditures for the 24 schools totaled $461 million for FY 1988-89 an 8% increase over fiscal year 1987-88. Of the total funds expended, nearly half (45%) were from institutional sources, 39% were from federal sources, and nearly 17% were from other sources. Since the 1974-75 fiscal year, expenditures at the schools of public health have increased by 277%.

In FY 1974-75, institutional sources accounted for only 36% of expenditures, federal sources 55%, and other sources 9%. Over the next 10 years, there was a shift toward more reliance on institutional funds and less reliance on federal monies. In the past several years, however, the proportion of expenditures that have come from institutional funds has decreased, while the proportion of expenditures from federal and other sources has increased.

TABLE 5-1
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES 1988-89

UNIVERSITY FUNDS

SCHOOL	SALARY	FRINGE	TOTAL SALARY AND FRINGE	STUDENT AID	NON-PERSONNEL EXPENSES	INDIRECT EXPENSES	TOTAL UNIVERSITY
25	10462454	1778186	12240640	0	2536594	6011170	20788404
26	9492773	2124116	11616889	3544500	6784393	3985890	25931672
27	7107810	1420072	8527882	762098	923338	6619167	16832485
28	5798343	1124937	6923280	15495	573520	1841281	9353576
29	2355918	634207	2990125	258736	558619	4480010	8287490
30	3324200	443100	3767300	0	317300	1205500	5290100
31	5155391	1049323	6204714	0	672231	2090988	8967933
32	5106140	1041801	6147941	379822	7653697	1266902	15448362
33	3787096	929235	4716331	13536	715822	6277123	11722812
34	1530877	382719	1913596	0	162416	426966	2502978
35	2256228	475801	2732029	162622	1099351	1341580	5335582
36	1406574	272648	1679222	0	204116	559079	2442417
37	1475722	438558	1914280	50437	1536501	816489	4317707
38	1656411	414103	2070514	51701	43377	1702956	3868548
39	2555228	657530	3212758	89950	854644	4887328	9044680
40	1798229	503504	2301733	0	168530	1035780	3506043
41	6733791	1001309	7735100	1600	1257343	5712830	14706873
42	3717238	817792	4535030	40000	3080533	1814012	9469575
43	2144600	479700	2624300	222040	724300	3470774	7041414
44	1933135	341530	2274665	144968	427371	222017	3069021
45	2302259	507182	2809441	147419	1842589	743480	5542929
46	2182765	292490	2475255	127944	486909	2651504	5741612
47	1113929	251973	1365902	0	243800	0	1609702
48	2169813	484102	2653915	118503	740050	1250081	4762549
Total	87566924	17865918	105432842	6131371	33607344	60412907	205584464

TABLE 5-2
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES 1988-89

GRANTS & CONTRACTS/TOTAL EXPENDITURES

	U.S. GOVERNMENT				OTHER SOURCES					
SCHOOL	RESEARCH GRANTS	TRAINING GRANTS	STUDENT AID	SUB-TOTAL	RESEARCH GRANTS	TRAINING GRANTS	STUDENT AID	SUB-TOTAL	TOTAL GRANTS	TOTAL EXPEND.
25	7615426	1929778	850866	10396070	2363132	267717	56369	2687218	13083288	33871692
26	43458858	1267834	3948197	48674889	13073079	2267664	1384221	16724964	65399853	91331525
27	4293692	1392316	869821	6555829	2679070	1071148	272543	4022761	10578590	27411075
28	3018223	548687	455447	4022357	1331667	71603	80051	1483321	5505678	14859254
29	7328469	761132	647460	8737061	4519179	183042	60394	4762615	13499676	21787166
30	4299400	571500	95600	4966500	1078300	355800	12200	1446300	6412800	11702900
31	3974880	949997	0	4924877	933157	179761	0	1112918	6037795	15005728
32	16580418	1912740	2588965	21082123	16368896	344815	1593605	18307316	39389439	54837801
33	13734350	1345408	296512	15376270	2529867	578248	0	3108115	18484385	30207197
34	393566	1560683	201100	2155349	87873	0	0	87873	2243222	4746200
35	4658801	389611	0	5048412	835351	65733	0	901084	5949496	11285078
36	254305	0	69516	323821	11556	30016	0	41572	365393	2807810
37	405367	77403	564450	1047220	121036	0	80560	201596	1248816	5566523
38	617844	134913	0	752757	4061706	0	0	4061706	4814463	8683011
39	9642646	937150	53004	10632800	3434912	1807633	16098	5258643	15891443	24936123
40	1204439	343070	135867	1683376	2385	707883	0	710268	2393644	5899687
41	4403285	1049832	210939	5664056	1426692	53456	200	1480348	7144404	21851277
42	9056739	1827987	529658	11414384	2797418	1102191	38008	3937617	15352001	24821576
43	5734600	78840	985675	6799115	1231900	0	41300	1273200	8072315	15113729
44	811917	175363	197588	1184868	344277	123271	0	494344	1679212	4748233
45	1595127	553488	360917	2509532	1273032	569515	13273	1855820	4365352	9908281
46	3053123	182050	90547	3325720	1321243	732265	32176	2085684	5411404	11153016
47	0	135545	106273	241818	0	0	0	0	241818	1851520
48	450952	0	113999	564951	1547610	130000	0	1677610	2242561	7005110
Total	146586427	18125327	13372401	178084155	63373338	10641761	3680998	77722893	255807048	461391512

TABLE 5-3
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES

FY	INSTITUTIONAL SOURCES		FEDERAL SOURCES		OTHER SOURCES		TOTAL EXPENDITURES
1974-75	$43,613,028	35.7	$67,130,975	54.9	$11,521,854	9.4	$122,265,857
1976-77	54,456,054	38.0	73,281,169	51.1	15,554,536	10.9	143,291,759
1977-78	63,821,421	39.8	79,581,169	49.6	16,969,924	10.6	160,372,514
1979-80	82,227,292	40.6	95,920,799	47.4	24,330,800	12.0	202,478,891
1980-81	91,696,770	41.6	105,123,883	47.7	23,580,608	10.7	220,401,261
1981-82	109,925,409	45.9	101,734,232	42.4	28,091,885	11.7	239,751,526
1982-83	112,532,050	48.9	90,662,549	39.4	27,080,347	11.8	230,274,946 /1
1983-84	112,476,638	48.9	84,707,805	36.8	32,730,286	14.2	229,914,729 /1
1984-85	148,485,900	51.8	105,897,277	36.9	32,253,444	11.3	286,636,621
1985-86	161,011,821	50.1	121,036,930	37.7	39,042,085	12.2	321,090,836
1986-87	174,779,516	47.7	142,369,309	38.8	49,361,045	13.5	366,509,870
1987-88	196,635,515	45.9	169,194,546	39.5	62,247,315	14.5	428,077,376
1988-89	205,584,464	44.6	178,084,155	38.6	77,722,893	16.8	461,391,512

1 One school did not report. In 1982-83, a small school was not included, and total expenditures were not greatly affected. However, in 1983-84, one of the largest schools was not included, and expenditures were significantly under reported.